Service
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Service Manual

Horizontal Frequency

30-60 kHz

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SAFETY NOTICE

ANY PERSON ATTEMPTING TO SERVICE THIS CHASSIS MUST FAMILIARIZE HIMSELF WITH THE CHASSIS AND BE AWARE OF THE NECESSARY SAFETY PRECAUTIONS TO BE USED WHEN SERVICING ELECTRONIC EQUIPMENT CONTAINING HIGH VOLTAGES.

CAUTION: USE A SEPARATE ISOLATION TRANSFOMER FOR THIS UNIT WHEN SERVICING

Revision List

Version	Date	Revision History	TPV Model Name
A00	Apr.-10-2008	Initial release	T68MM5NQWKA26N

Important Safety Notice

Proper service and repair is important to the safe, reliable operation of all AOC Company Equipment. The service procedures recommended by AOC and described in this service manual are effective methods of performing service operations. Some of these service operations require the use of tools specially designed for the purpose. The special tools should be used when and as recommended.

It is important to note that this manual contains various CAUTIONS and NOTICES which should be carefully read in order to minimize the risk of personal injury to service personnel. The possibility exists that improper service methods may damage the equipment. It is also important to understand that these CAUTIONS and NOTICES ARE NOT EXHAUSTIVE. AOC could not possibly know, evaluate and advise the service trade of all conceivable ways in which service might be done or of the possible hazardous consequences of each way. Consequently, AOC has not undertaken any such broad evaluation. Accordingly, a servicer who uses a service procedure or tool which is not recommended by AOC must first satisfy himself thoroughly that neither his safety nor the safe operation of the equipment will be jeopardized by the service method selected.
Hereafter throughout this manual, AOC Company will be referred to as AOC.

WARNING

Use of substitute replacement parts, which do not have the same, specified safety characteristics may create shock, fire, or other hazards.

Under no circumstances should the original design be modified or altered without written permission from AOC. AOC assumes no liability, express or implied, arising out of any unauthorized modification of design.
Servicer assumes all liability.

FOR PRODUCTS CONTAINING LASER:
DANGER-Invisible laser radiation when open AVOID DIRECT EXPOSURE TO BEAM.
CAUTION-Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.
CAUTION -The use of optical instruments with this product will increase eye hazard.

TO ENSURE THE CONTINUED RELIABILITY OF THIS PRODUCT, USE ONLY ORIGINAL MANUFACTURER'S REPLACEMENT PARTS, WHICH ARE LISTED WITH THEIR PART NUMBERS IN THE PARTS LIST SECTION OF THIS SERVICE MANUAL.
Take care during handling the LCD module with backlight unit
-Must mount the module using mounting holes arranged in four corners.
-Do not press on the panel, edge of the frame strongly or electric shock as this will result in damage to the screen.
-Do not scratch or press on the panel with any sharp objects, such as pencil or pen as this may result in damage to the panel.
-Protect the module from the ESD as it may damage the electronic circuit (C-MOS).
-Make certain that treatment person’s body is grounded through wristband.
-Do not leave the module in high temperature and in areas of high humidity for a long time.
-Avoid contact with water as it may a short circuit within the module.
-If the surface of panel becomes dirty, please wipe it off with a soft material. (Cleaning with a dirty or rough cloth may damage the panel.)

1. Monitor Specification

LCD Panel	Model number	1619Swa
	Driving system	TFT Color LCD
	Viewable Image Size	395mm diagonal
	Pixel pitch	0.252mm(H) x 0.252mm(V)
	Video	R, G, B Analog interface
	Separate Sync.	H/V TTL
	Display Color	16.7M Colors
	Dot Clock	85.5 MHz
Resolution	Horizontal scan range	30 kHz - 60 kHz
	Horizontal scan Size(Maximum)	344.232mm
	Vertical scan range	55 Hz - 75 Hz
	Vertical scan Size(Maximum)	193.536mm
	Optimal preset resolution	1360 x 768 (60 Hz)
	Highest preset resolution	1366 x 768 (60 Hz)
	Plug & Play	VESA DDC2B/CI
	Input Connector	D-Sub 15pin
	Input Video Signal	Analog: 0.7Vp-p(standard), 75 OHM, Positive
	Power Source	100~240VAC, 50/60Hz
	Power Consumption	Active < 28 W
		Standby < 1 W
	Speakers	2 x 1W
Physical Characteristics	Connector Type	15-pin Mini D-Sub
	Signal Cable Type	Detachable
	Dimensions & Weight:	
	Height (with base)	304 mm
	Width	376 mm
	Depth	190 mm
	Weight (monitor only)	2.7 kg
	Weight (with packaging)	3.7kg
Environmental	Temperature:	
	Operating	0° to 40°
	Non-Operating	-20°to 60°
	Humidity:	

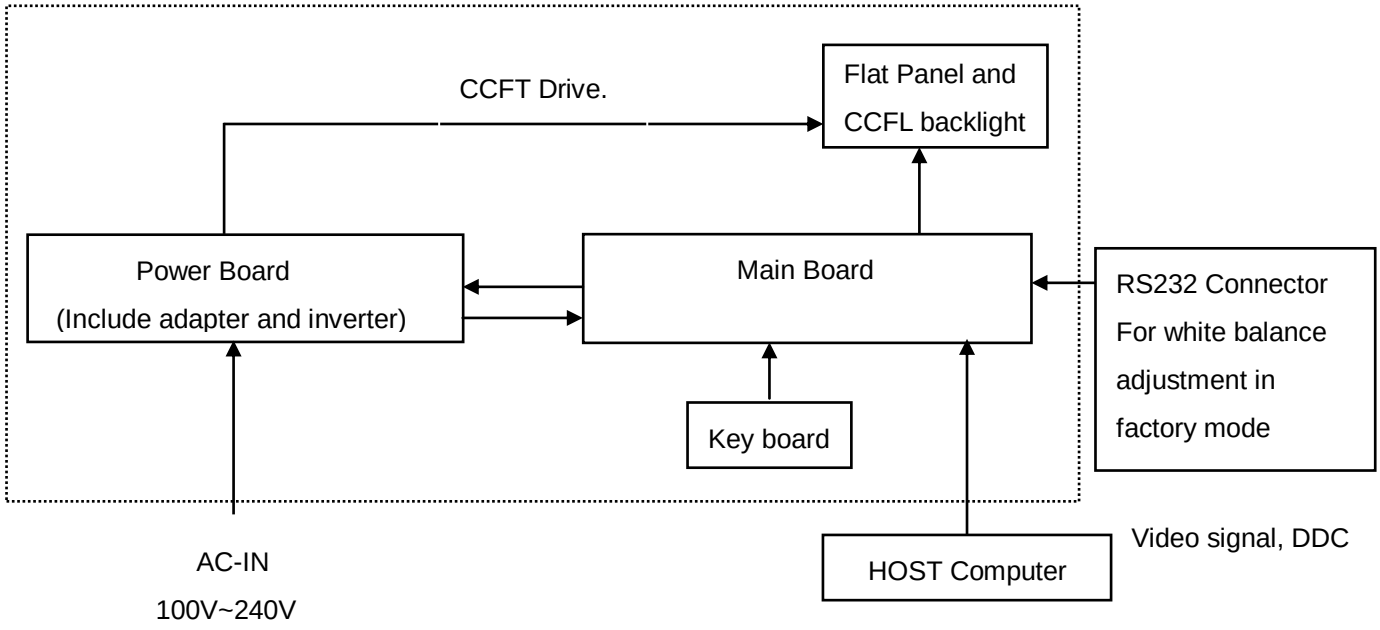
	Operating	10% to 85% (non-condensing)
	Non-Operating	5% to 80% (non-condensing)
	Altitude:	
	Operating	0~ 3000m (0~ 10000 ft)
	Non-Operating	0~ 5000m (0~ 15000 ft)

2. LCD Monitor Description

The LCD Monitor will contain main board, power board, key board which house the flat panel control logic, brightness control logic and DDC.

The power board will provide AC to DC Inverter voltage to drive the backlight of panel and the main board chips each voltage.

Monitor Block Diagram



3. Operation Instructions

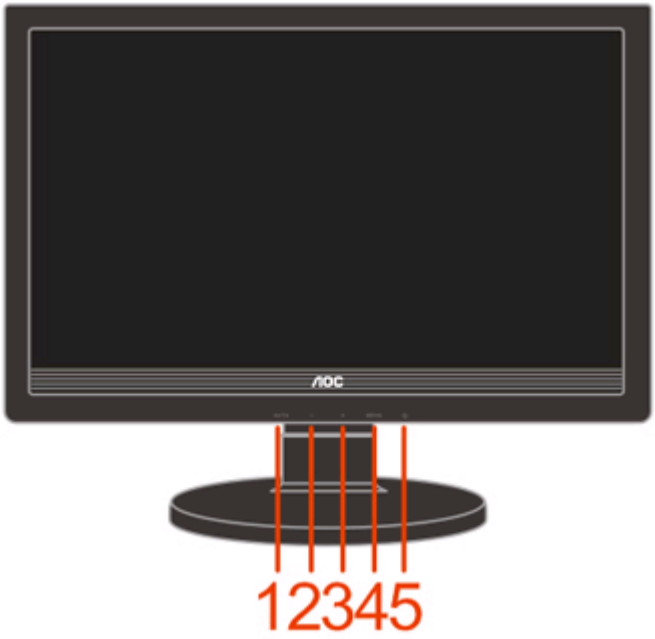
3.1 General Instructions

Press the power button to turn the monitor on or off. The control buttons are located at front panel of the monitor.

By changing these settings, the picture can be adjusted to your personal preferences.

- The power cord should be connected.
- Connect the video cable from the monitor to the video card.
- Press the power button to turn on the monitor, the power indicator will light up.

3.2 Control Buttons



1 Auto / Exit

2 Eco mode / -

3 Volume / +

4 Menu

5 Power

3.3 Adjusting the Picture

OSD Settings

1) Press the MENU-button to activate the OSD window.

2) Press- or + to navigate through the functions. Once the desired function is highlighted, press the MENU-button to activate sub-menu. Once the desired function is highlighted, press MENU-button to activate it.

3) Press- or +to change the settings of the selected function. Press - or + to select another function in sub-menu . Press AUTO to exit. If you want to adjust any other function, repeat steps 2-3.

4) OSD Lock Function: To lock the OSD, press and hold the MENU button while the monitor is off and then press power button to turn the monitor on. To un-lock the OSD - press and hold the MENU button while the monitor is off and then press power button to turn the monitor on.

5) Eco Mode hot key: Press the Eco key continuously to select the Eco mode of brightness when there is no OSD (Eco mode hot key may not be available in all models).

6) Volume adjustment hot key: When there is no OSD, press Volume (+) to active volume adjustment bar, press - or + to adjust volume (Only for the models with speakers).

7) DCR hot key (►): Only to press DCR key continuously is able to active or disable DCR function when there is no OSD.

8) Auto configure hot key: When the OSD is closed, press Auto button will be auto configure hot key function .

OSD functions

	Luminance	Adjust Range	Description
	Brightness	0-100	Backlight Adjustment
	Contrast	0-100	Contrast from Digital-register.
	Eco mode	Standard	Standard Mode
		Text	Text Mode
		Internet	Internet Mode
		Game	Game Mode
		Movie	Movie Mode
		Sports	Sports Mode
	Gamma	Gamma1	Adjust to Gamma1
		Gamma2	Adjust to Gamma 2
		Gamma3	Adjust to Gamma 3
	DCR	Off	Disable dynamic contrast ratio
		On	Enable dynamic contrast ratio
	Image Setup		
	Clock	0-100	Adjust picture Clock to reduce Vertical-Line noise.
	Phase	0-100	Adjust Picture Phase to reduce Horizontal-Line noise
	H. Position	0-100	Adjust the horizontal position of the picture.
	V. Position	0-100	Adjust the vertical position of the picture.
	Color Temp.		
	Warm	6500K	Recall Warm Color Temperature from EEPROM.

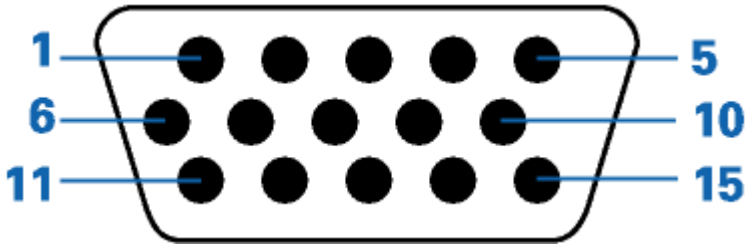
	Normal	7300K	Recall Normal Color Temperature from EEPROM.
	Cool	9300K	Recall Cool Color Temperature from EEPROM.
	sRGB		Recall SRGB Color Temperature from EEPROM.
	User	User-R	Red Gain from Digital-register
		User-G	Green Gain Digital-register.
		User-B	Blue Gain from Digital-register
	Color Boost		
	Full Enhance	on or off	Disable or Enable Full Enhance Mode
	Nature Skin	on or off	Disable or Enable Nature Skin Mode
	Green Field	on or off	Disable or Enable Green Field Mode
	Sky-blue	on or off	Disable or Enable Sky-blue Mode
	AutoDetect	on or off	Disable or Enable AutoDetect Mode
	Demo	on or off	Disable or Enable Demo
	Picture Boost		
	Frame Size	14-100	Adjust Frame Size
	Brightness	0-100	Adjust Frame Brightness
	Contrast	0-100	Adjust Frame Contrast
	Hue	0-100	Adjust Frame Hue
	Saturation	0-100	Adjust Frame Saturation
	Position	H. position	Adjust Frame horizontal Position
		V. position	Adjust Frame vertical Position
	Bright Frame	on or off	Disable or Enable Bright Frame
	OSD Setup		
	H. Position	0-100	Adjust the horizontal position of OSD
	V. Position	0-100	Adjust the vertical position of OSD
	Timeout	5-120	Adjust the OSD Timeout
	Transparence	0-100	Adjust the transparence of OSD

	Language		Select the OSD language
	Extra		
	Input Select	Auto	Select to Auto Detect input signal
	Auto Config	yes or no	Auto adjust the picture to default
	Image Ratio	wide or 4:3	Select wide or 4:3 format for display
	DDC-CI	yes or no	Turn ON/OFF DDC-CI Support
	Information		Show the information of the main image and sub-image source
	Reset		
	Reset	yes or no	Reset the menu to default
	Exit		
	Exit		Exit the main OSD

4. Input/Output Specification

4.1 Input Signal Connector

D-Sub mini 15pin Connector



Pin Number	15-Pin Side of the Signal Cable
1	Video-Red
2	Video-Green
3	Video-Blue
4	N.C.
5	Ground
6	GND-R
7	GND-G
8	GND-B
9	+5V
10	Detect Cable
11	N.C.
12	DDC-Serial data
13	H-sync
14	V-sync
15	DDC-Serial clock

4.2 Factory Preset Display Modes

STAND	RESOLUTION	HORIZONTAL FREQUENCY(KHZ)	VERTICAL FREQUENCY(Hz)
VGA	640×480 @60Hz	31.469	59.940
VGA	640×480 @67Hz	35.000	66.667
VGA	640×480 @72Hz	37.861	72.809
VGA	640×480 @75Hz	37.500	75.000
Dos-mode	720×400 @70Hz	31.469	70.087
SVGA	800×600 @56Hz	35.156	56.250
SVGA	800×600 @60Hz	37.879	60.317
SVGA	800×600 @72Hz	48.077	72.188
SVGA	832×624 @75Hz	46.875	75.000
Mac-mode	832×624 @75Hz	49.725	74.500
XGA	1024×768 @60Hz	48.363	60.004
XGA	1024×768 @70Hz	56.476	70.069
XGA	1024×768 @72Hz	57.500	72.074
XGA	1024×768 @75Hz	60.023	75.029
XGA	1024×768 @75Hz	60.241	74.927
wXGA	1360×768 @60Hz	47.712	60.015
wXGA	1366×768 @60Hz	47.712	59.790

4.3. Panel Specification

4.3.1 General Feature

M156B1-L01 is a 15.6” TFT Liquid Crystal Display module with 2 CCFL Backlight unit and 30pin 1ch-LVDS interface.

This module supports 1366 x 768 WXGA mode and can display up to 16.7M colors.

The inverter module for Backlight is not built in.

Item	Specification	Unit
Active Area	344.232(H) × 193.536(V) (15.6” diagonal)	mm
Bezel Opening Area	347.5(H)x196.8(V)	mm
Driver Element	a-Si TFT active matrix	-
Pixel Number	1366 x R.G.B. x 768	pixel
Pixel Pitch	0.252 (H) x 0.252 (V)	mm
Pixel Arrangement	RGB vertical stripe	-
Display Colors	16.7M	color
Transmissive Mode	Normally White	-
Surface Treatment	AG type, 3H hard coating, Haze 25	-

4.3.2 Optical Characteristics

Item		Symbol	Condition	Min.	Typ.	Max.	Unit
Color Chromaticity (CIE 1931)	Red	Rx	θ_x=0°, θ_Y =0° CS-1000T	Typ - 0.03	0.638	Typ + 0.03	-
		Ry			0.333		
	Green	Gx			0.290		
		Gy			0.591		
	Blue	Bx			0.153		
		By			0.082		
	White	Wx		0.283	0.313	0.343	
		Wy		0.299	0.329	0.359	
Center Luminance of White (Center of Screen)		L_C		210	250	-	cd/m^2
Contrast Ratio		CR		350	500	-	-
Response Time		T_R	θ_x=0°, θ_Y =0°	-	2	4	ms
		T_F		-	6	12	
		$T_{GtG\ AVE}$		-	-		
White Variation		δW	θ_x=0°, θ_Y =0° USB2000	-	1.4	1.5	-
Viewing Angle	Horizontal	θ_x+	CR ≧ 5 USB2000	50	55	-	Deg.
		θ_x-		50	55	-	
	Vertical	θ_Y+		25	30	-	
		θ_Y-		50	55	-	
Viewing Angle	Horizontal	θ_x+	CR ≧ 10 USB2000	40	45	-	Deg.
		θ_x-		40	45	-	
	Vertical	θ_Y+		15	20	-	
		θ_Y-		40	45	-	

4.3.3 Electrical Characteristics

TFT Module

Parameter		Symbol	Value			Unit
			Min.	Typ.	Max.	
Power Supply Voltage		Vcc	4.5	5.0	5.5	V
Ripple Voltage		V_{RP}	-	-	100	mV
Rush Current		I_{RUSH}			1.5	A
Power Supply Current	White	-		0.3	0.35	A
	Black	-		0.35	0.41	A
	Vertical Stripe	-		0.4	0.45	A
LVDS differential input voltage		Vid	100	-	600	mV
LVDS common input voltage		Vic	-	1.2	-	V

Back-light

Parameter	Symbol	Value			Unit
		Min.	Typ.	Max.	
Lamp Input Voltage	V_L	585	650	715	V_{RMS}
Lamp Current	I_L	3.0	7.0	8.0	mA_{RMS}
Lamp Turn On Voltage	V_S			1200 (0℃)	V_{RMS}
				1100 (25℃)	V_{RMS}
Operating Frequency	F_L	50	55	60	KHz
		40	55	80	KHz
Lamp Life Time	L_{BL}	40,000	50,000		Hrs
Power Consumption	P_L		9.24		W

Note (1) Permanent damage might occur if the module is operated at conditions exceeding the maximum values.

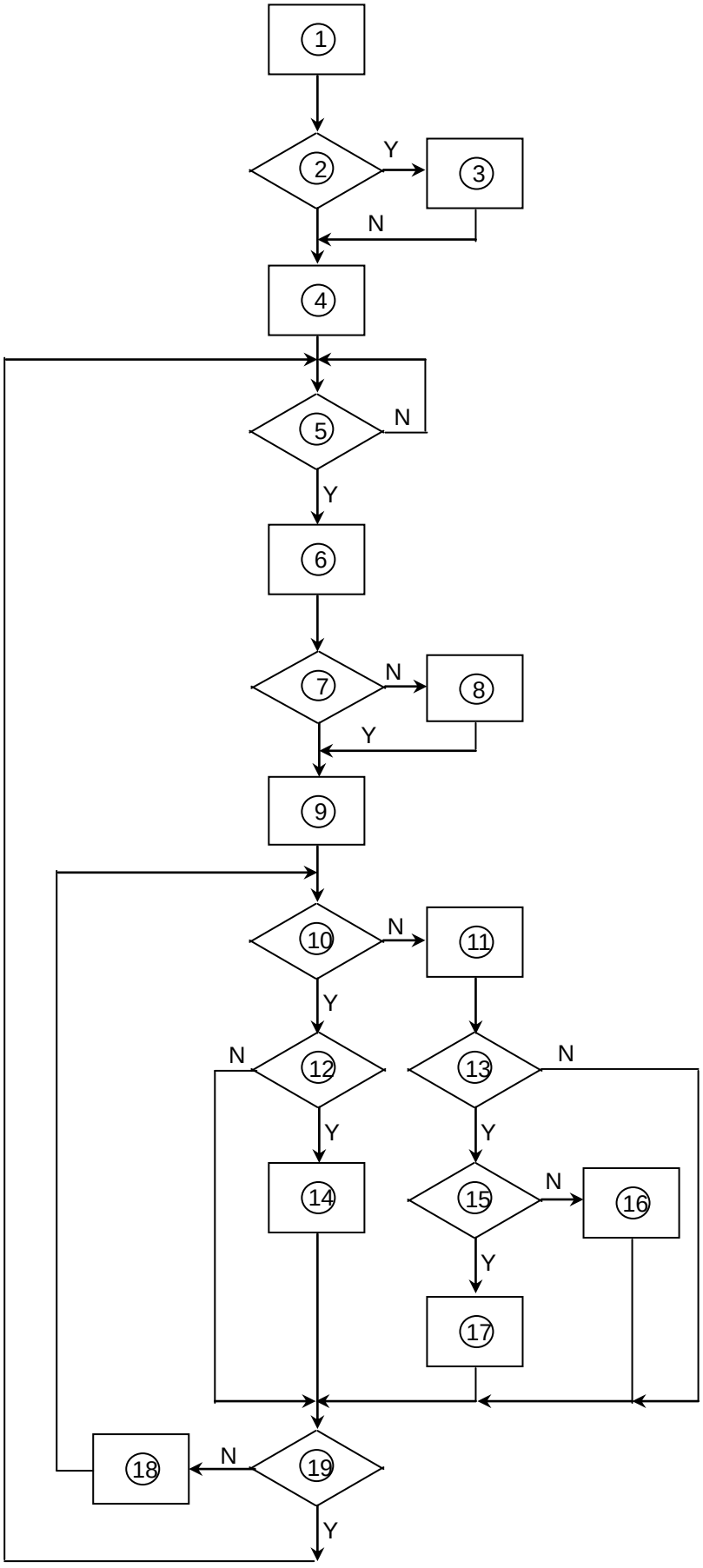
Note (2) Specified values are for lamp (Refer to 3.2 for further information).

Note (3) The frequency range can guarantee the optical and electrical characteristics.

Note (4) The frequency range will not effect the Lifetime and reliability characteristics.

5. Block Diagram

5.1 Software Flow Chart

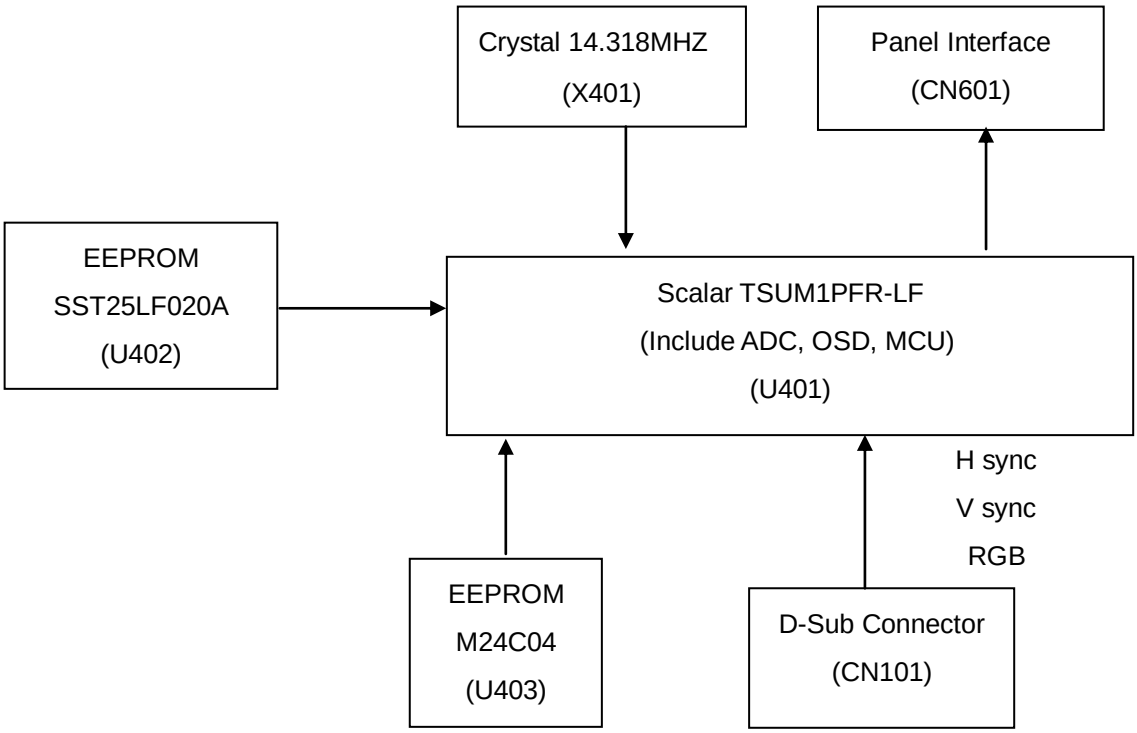


REMARK:

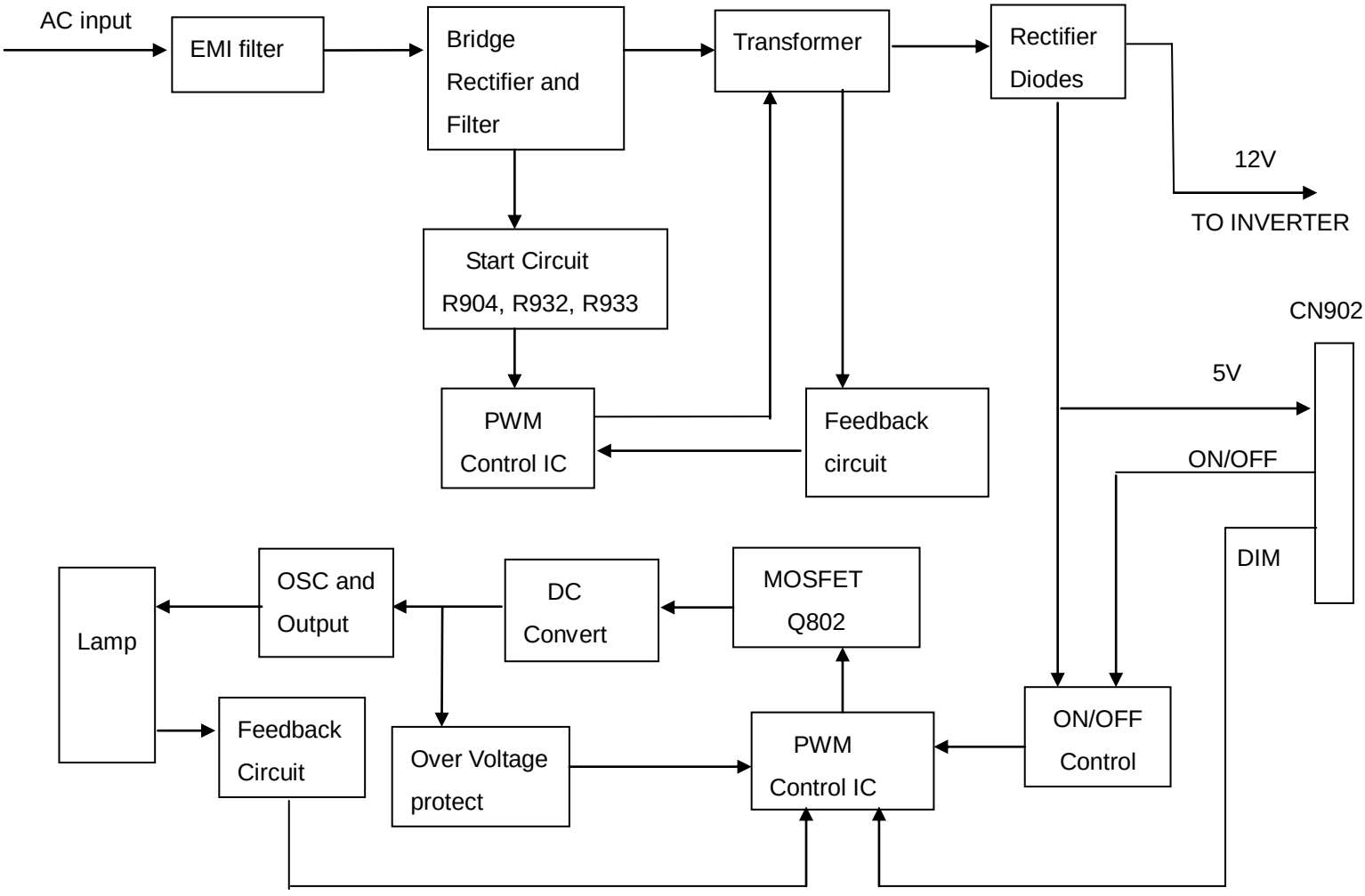
1) MCU initialize.
2) Is the EEprom blank?
3) Program the EEprom by default values.
4) Get the PWM value of brightness from EEprom.
5) Is the power key pressed?
6) Clear all global flags.
7) Are the AUTO and SELECT keys pressed?
8) Enter factory mode.
9) Save the power key status into EEprom. Turn on the LED and set it to green color. Scalar initializes.
10) In standby mode?
11) Update the lifetime of back light.
12) Check the analog port, are they’re any signals coming?
13) Does the scalar send out an interrupt request?
14) Wake up the scalar.
15) Are there any signals coming from analog port?
16) Display "No connection Check Signal Cable" message. And go into standby mode after the message disappears.
17) Program the scalar to be able to show the coming mode.
18) Process the OSD display.
19) Read the keyboard. Is the power key pressed?

5.2 Electrical Block Diagram

Main Board

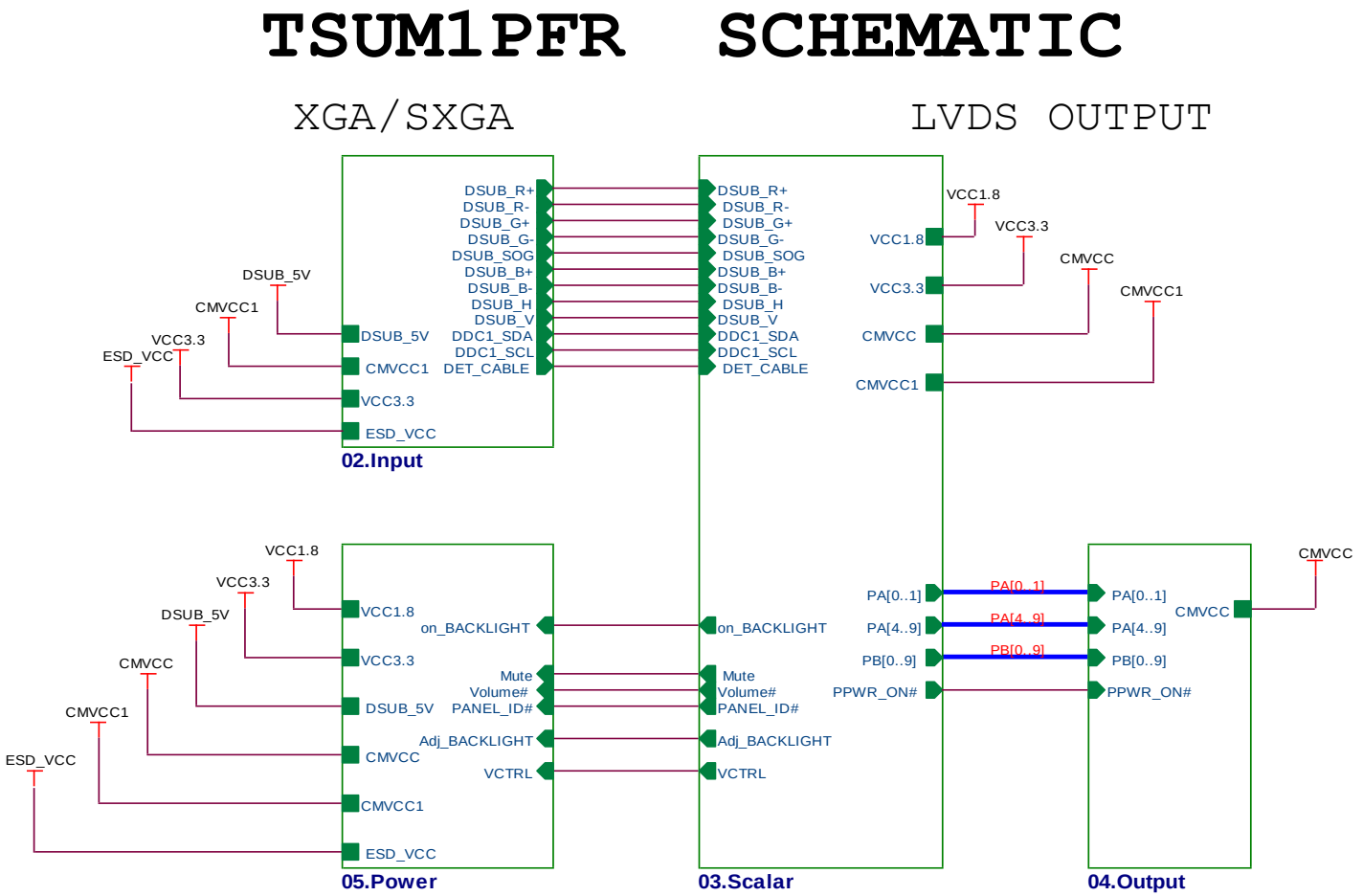


Power Board


AC input
EMI filter
Bridge Rectifier and Filter
Transformer
Rectifier Diodes
12V
TO INVERTER
Start Circuit R904, R932, R933
CN902
5V
PWM Control IC
Feedback circuit
ON/OFF
DIM
Lamp
OSC and Output
DC Convert
MOSFET Q802
Feedback Circuit
Over Voltage protect
PWM Control IC
ON/OFF Control

6. Schematic

6.1 Main Board



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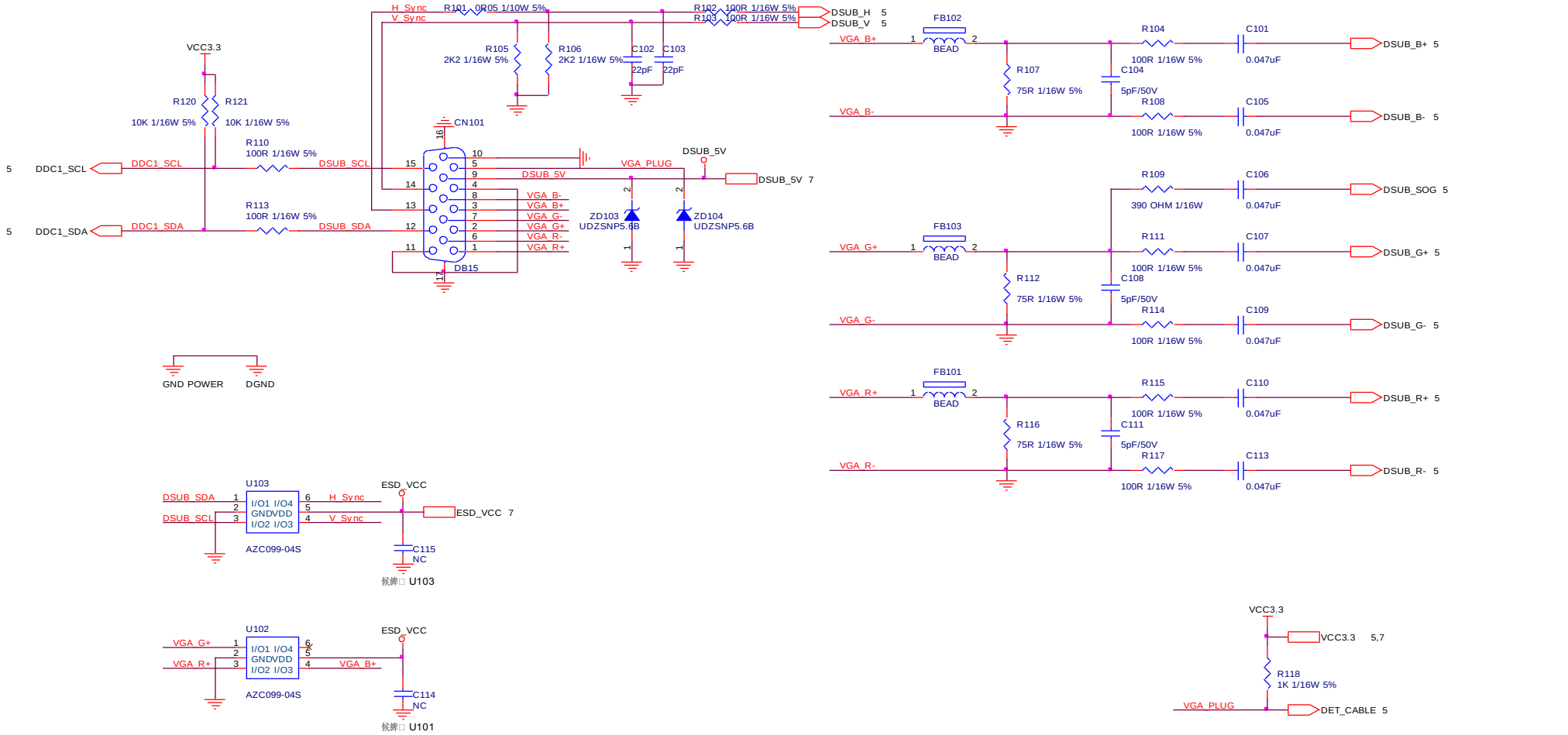
Date	Friday, January 25, 2008	Sheet	3 of 7		



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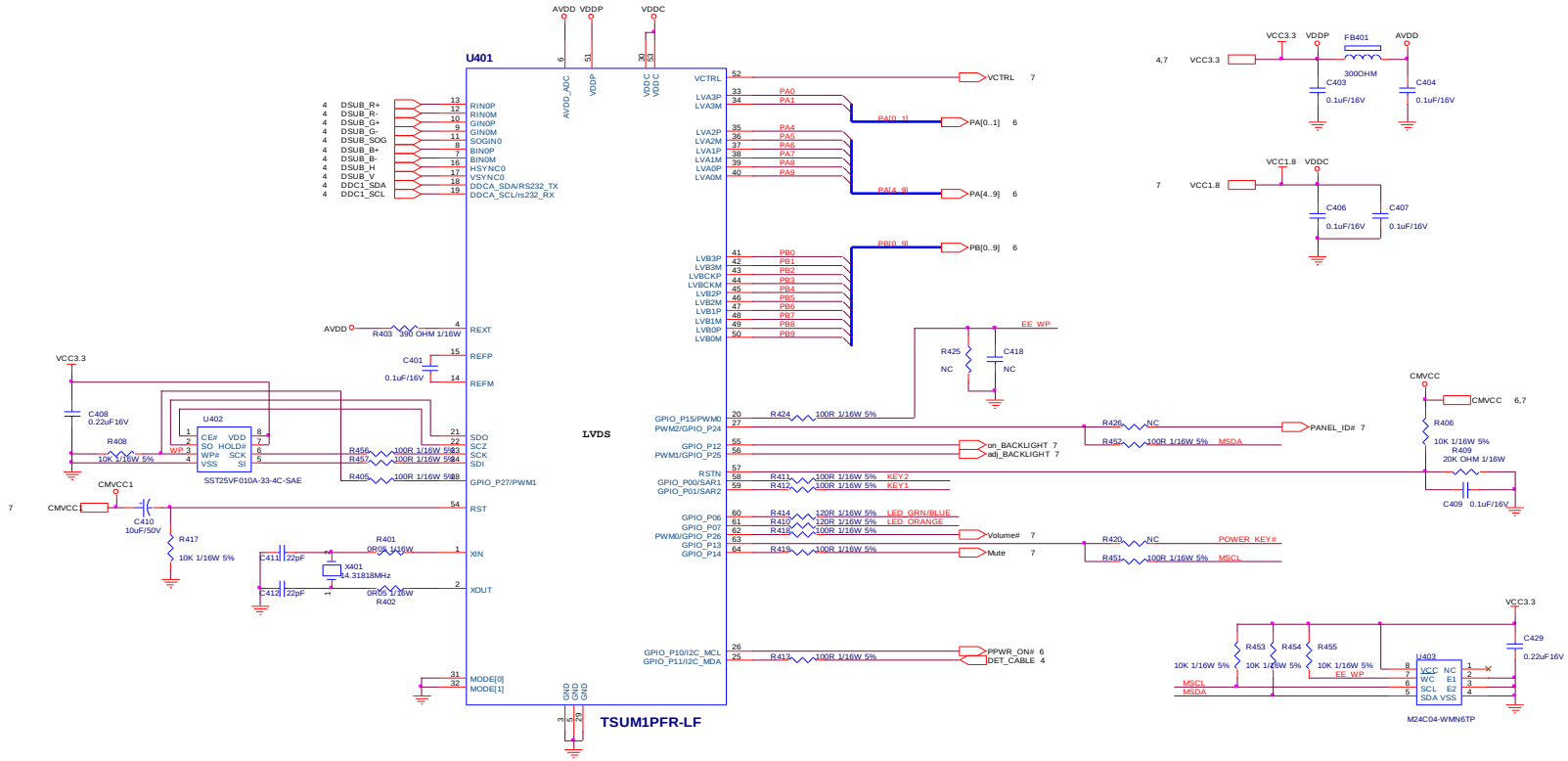

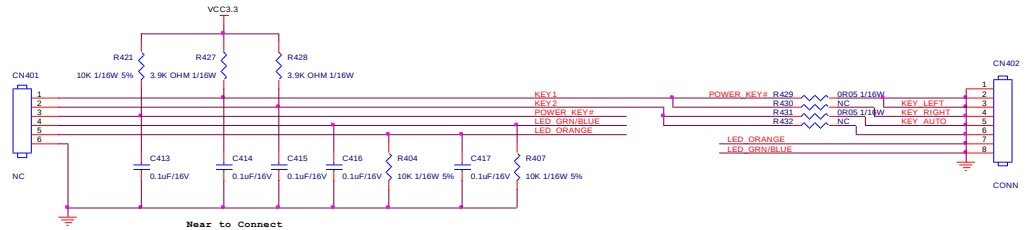

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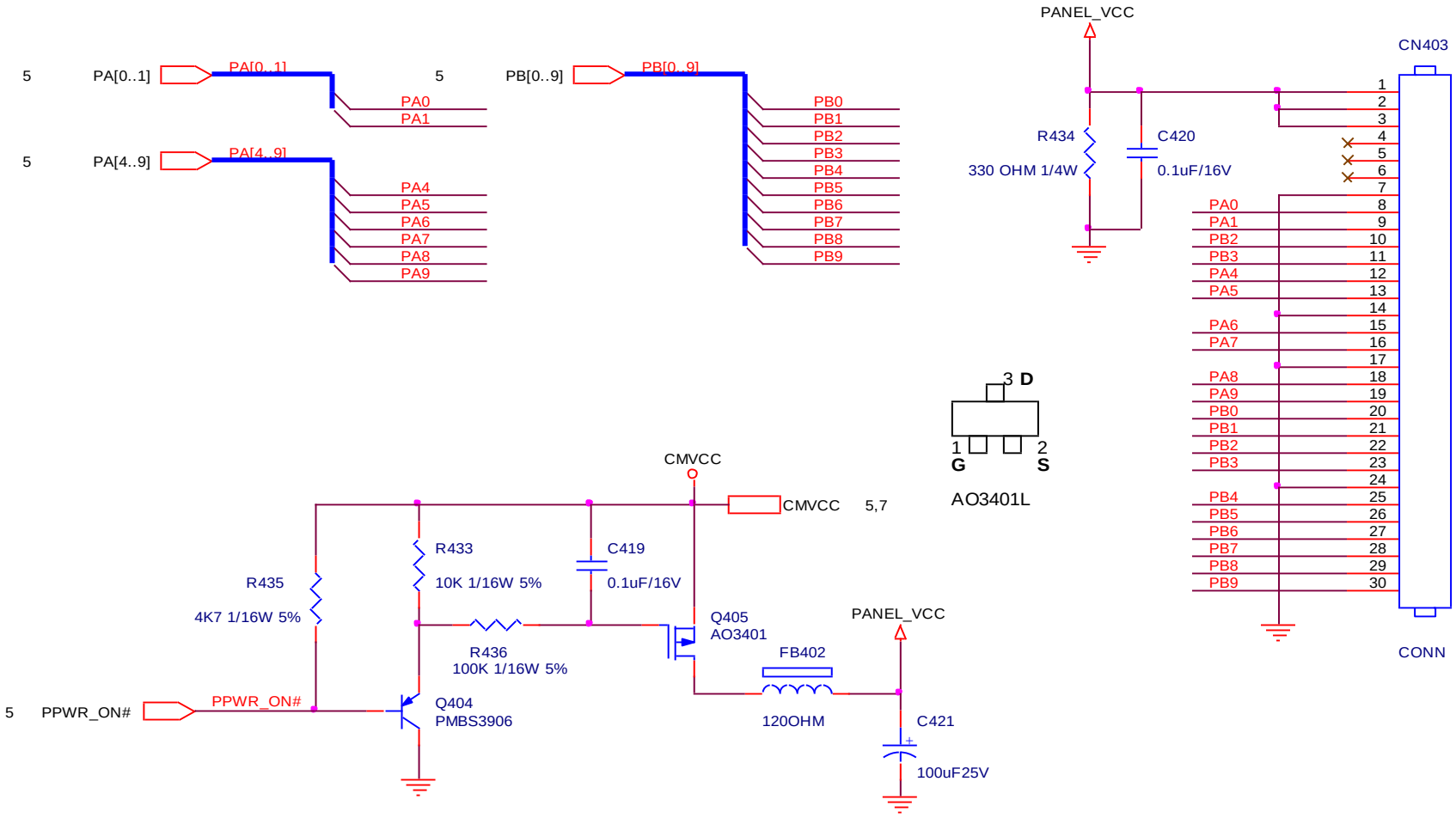

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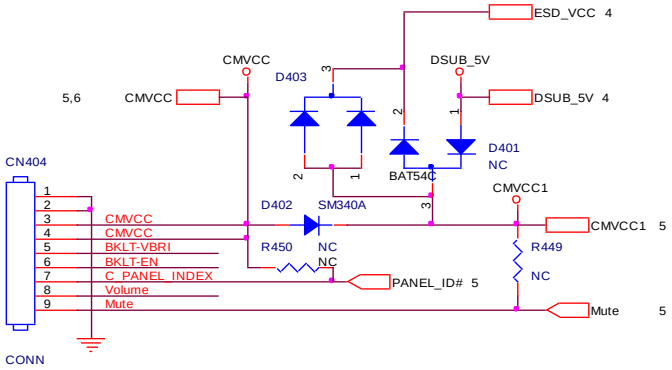

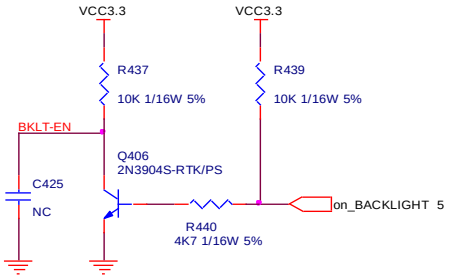

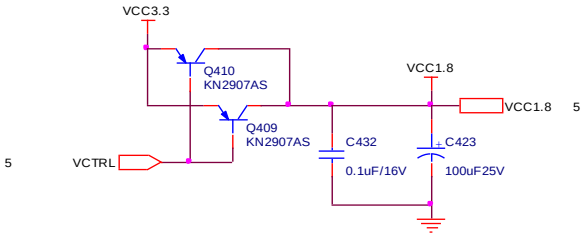

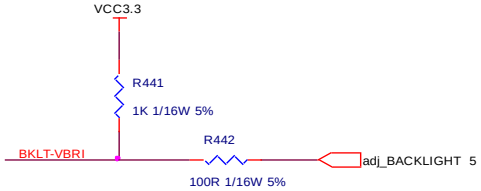

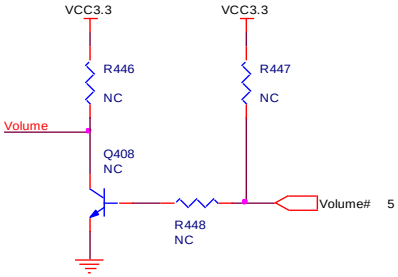

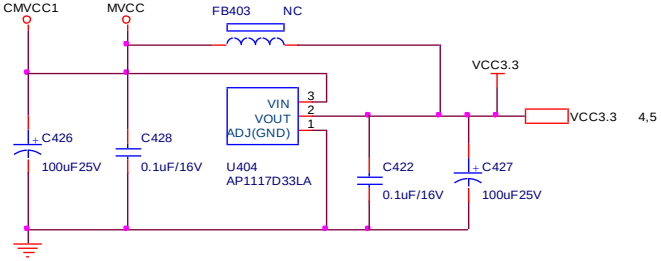

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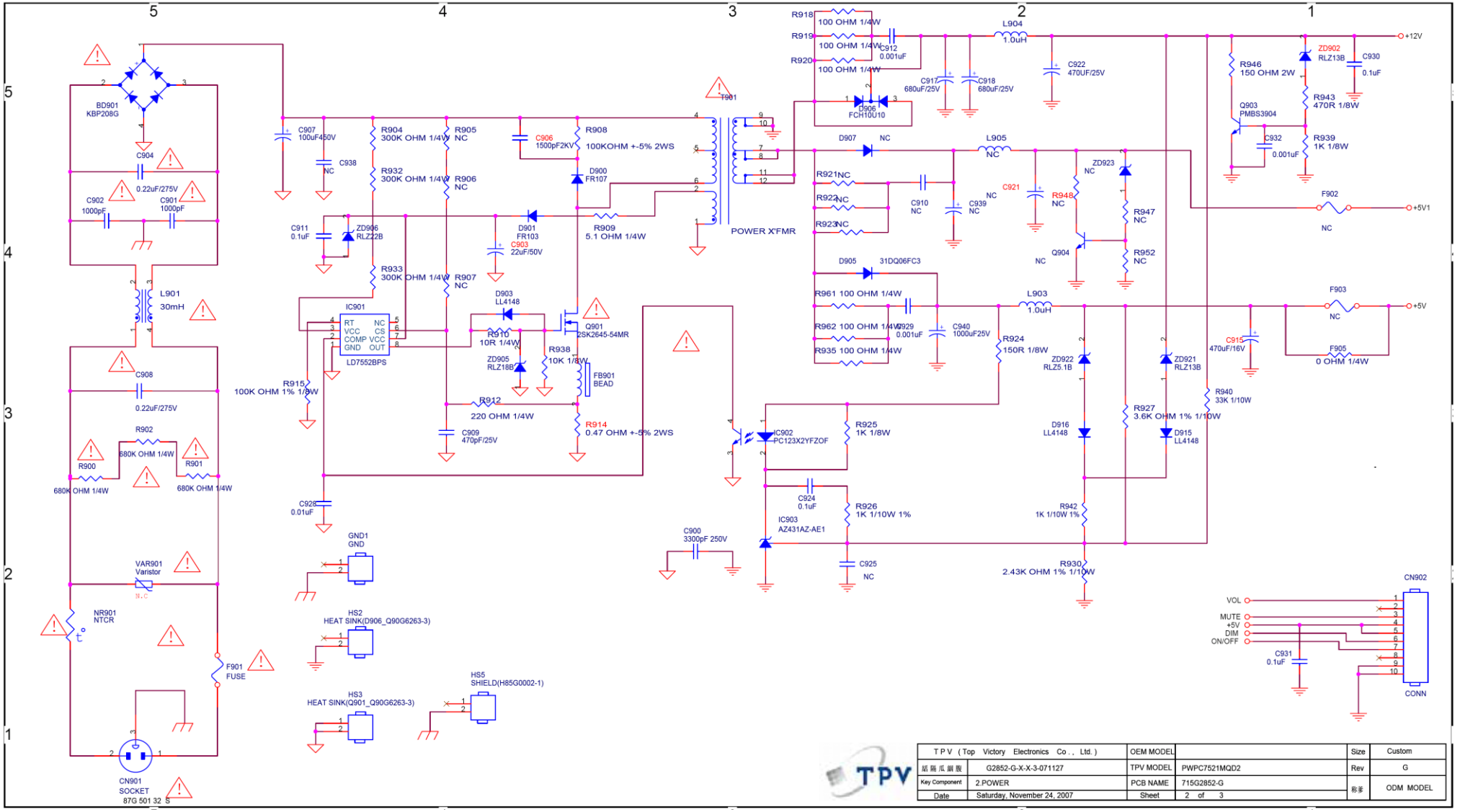
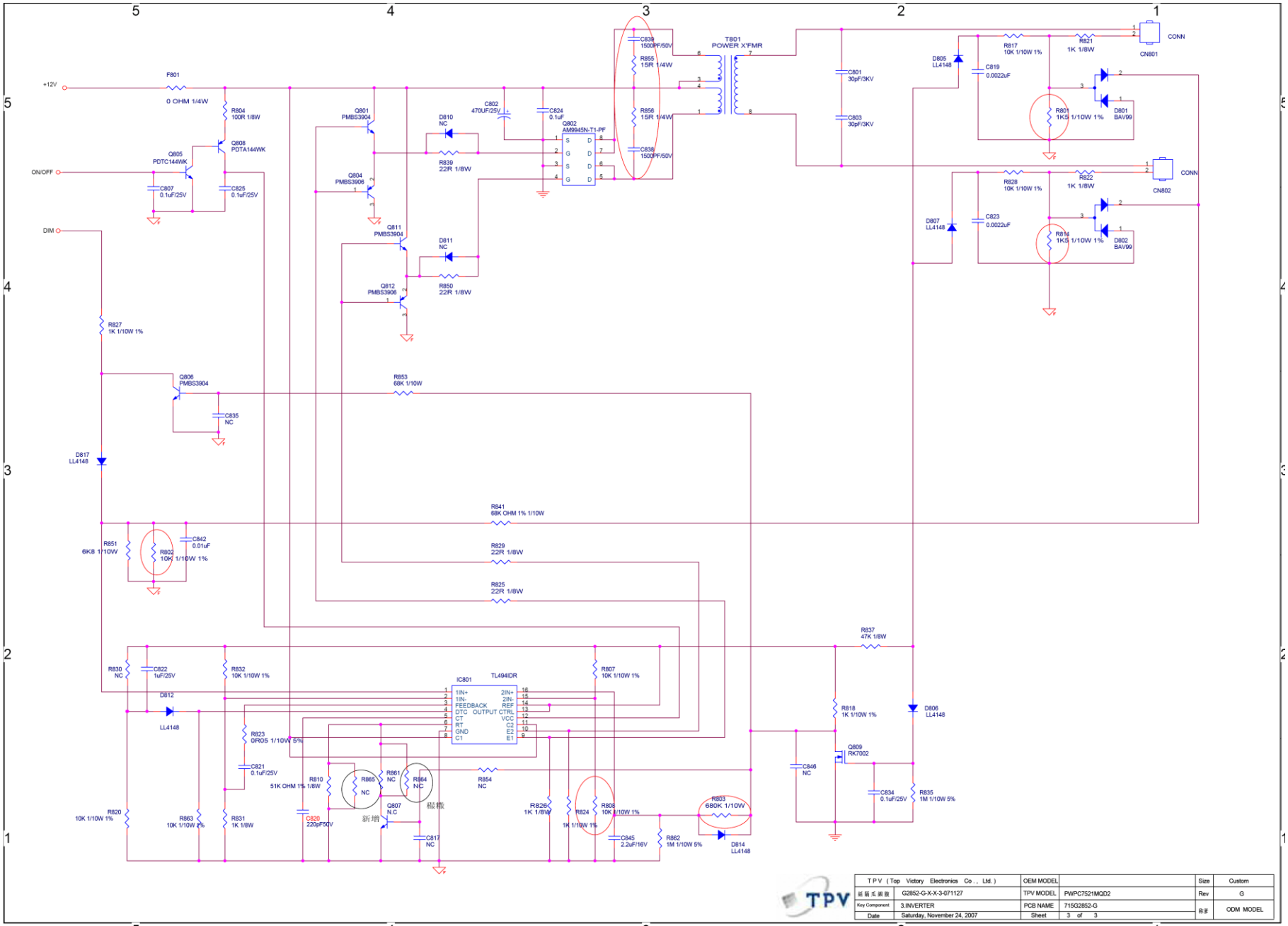
Date	Friday , January 25, 2008	Sheet	7 of 7		

6.2 Power Board

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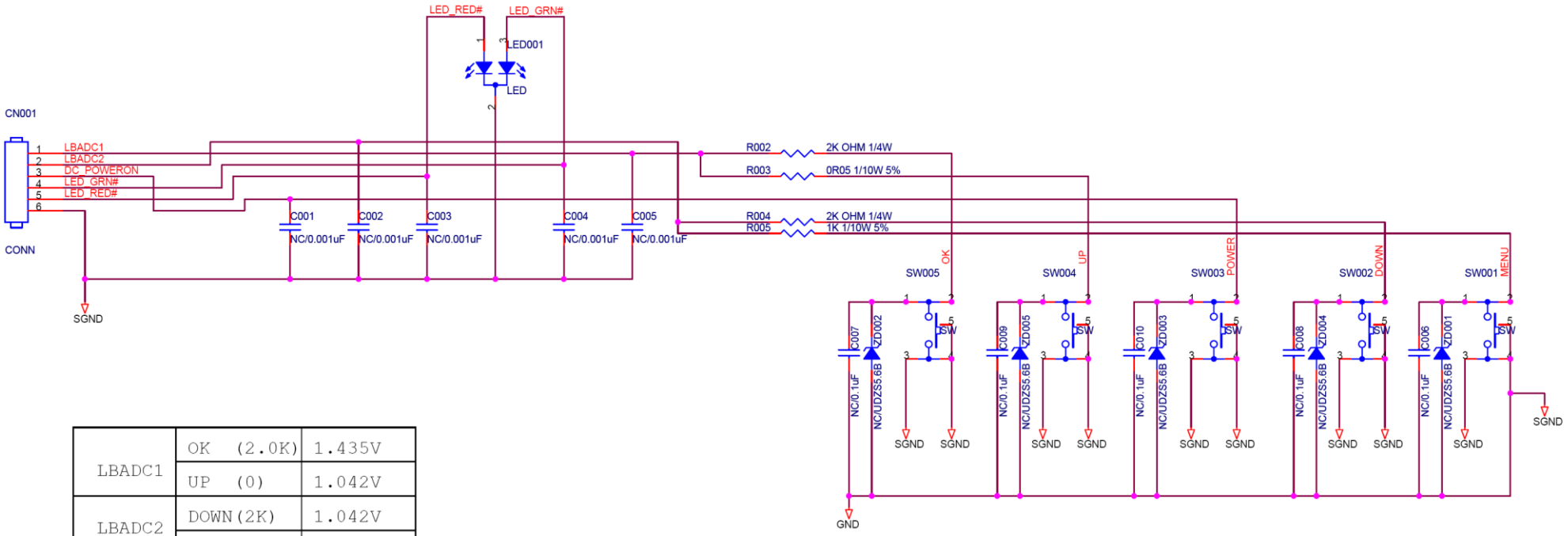
ON/OFF
DIM
F801
0 OHM 1/4W
R804 100R 1/8W
Q808 PDTA144WK
Q805 PDTC144WK
C807 0.1uF/25V
C825 0.1uF/25V
Q801 PMBS3904
Q804 PMBS3906
Q811 PMBS3904
Q812 PMBS3906
D810 NC
D811 NC
R839 22R 1/8W
R850 22R 1/8W
C802 470UF/25V
C824 0.1uF
Q802 AM9945N-T1-PF
C839 1500PF/50V
C838 1500PF/50V
R855 15R 1/4W
R856 15R 1/4W
T801 POWER X'FMR
C801 30pF/3KV
C803 30pF/3KV
D805 LL4148
C819 0.0022uF
R817 10K 1/10W 1%
R821 1K 1/8W
CONN
CN801
R801 1K5 1/10W 1%
D801 BAV99
R828 10K 1/10W 1%
R822 1K 1/8W
CONN
CN802
D807 LL4148
C823 0.0022uF
R814 1K5 1/10W 1%
D802 BAV99
R827 1K 1/10W 1%
Q806 PMBS3904
C835 NC
R853 68K 1/10W
D817 LL4148
R841 68K OHM 1% 1/10W
R829 22R 1/8W
R825 22R 1/8W
R851 6K8 1/10W
R802 10K 1/10W 1%
C842 0.01uF
R837 47K 1/8W
R830 NC
C822 1uF/25V
R832 10K 1/10W 1%
D812 LL4148
IC801 TL494IDR
1IN+ 1IN- FEEDBACK DTC OUTPUT CTRL CT RT GND C1 2IN+ 2IN- REF VCC C2 E2 E1
R807 10K 1/10W 1%
R818 1K 1/10W 1%
D806 LL4148
Q809 RK7002
C846 NC
C834 0.1uF/25V
R835 1M 1/10W 5%
R823 0R05 1/10W 5%
C821 0.1uF/25V
R810 51K OHM 1% 1/8W
R865 NC
R861 NC
R864 NC
R854 NC
R820 10K 1/10W 1%
R863 10K 1/10W 1%
R831 1K 1/8W
C820 220pF/50V
新增
Q807 N.C
稽鞭
R826 1K 1/8W
R824 1K 1/10W 1%
R808 10K 1/10W 1%
C845 2.2uF/16V
R862 1M 1/10W 5%
R803 680K 1/10W
D814 LL4148
C817 NC
TPV
T P V (Top Victory Electronics Co., Ltd.)
OEM MODEL
Size Custom
G2852-G-X-X-3-071127
TPV MODEL PWPC7521MQD2
Rev G
Key Component 3.INVERTER
PCB NAME 715G2852-G
ODM MODEL
Date Saturday, November 24, 2007
Sheet 3 of 3

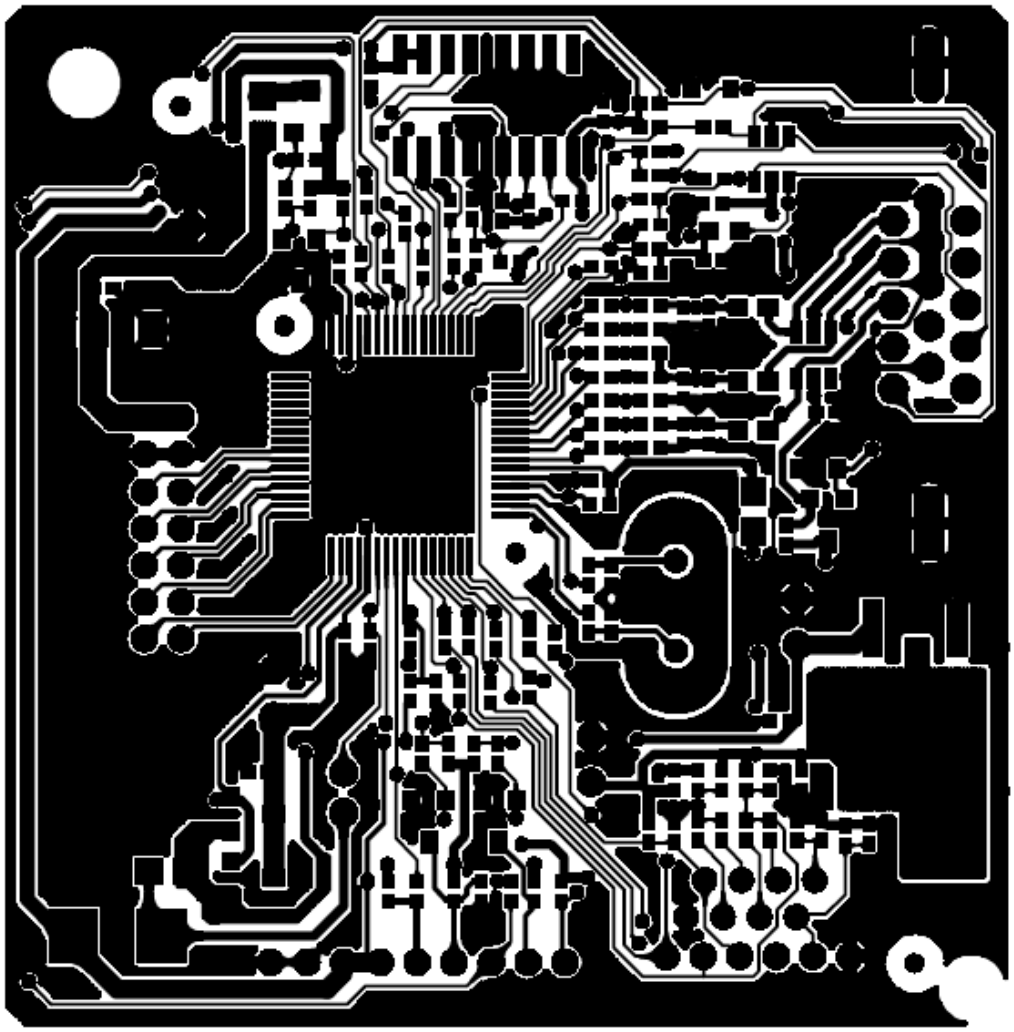
6.3 Key Board

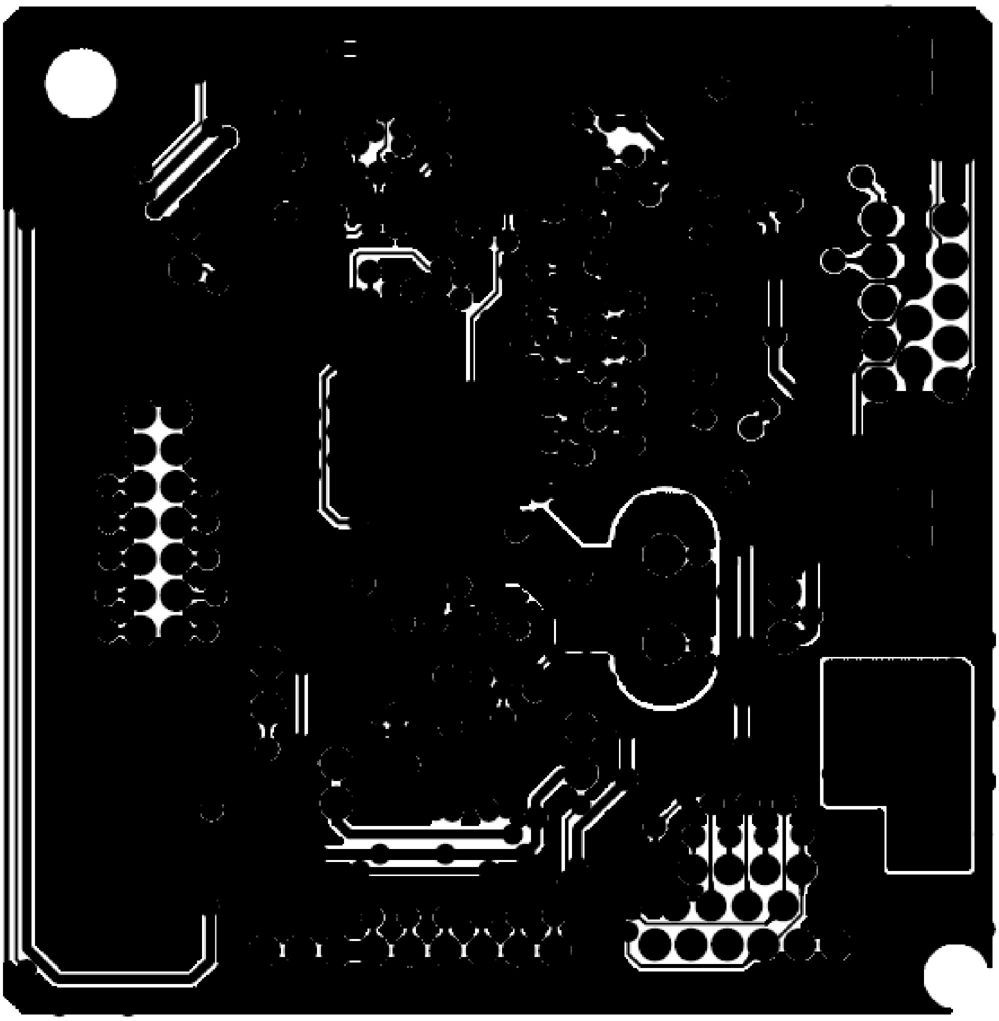


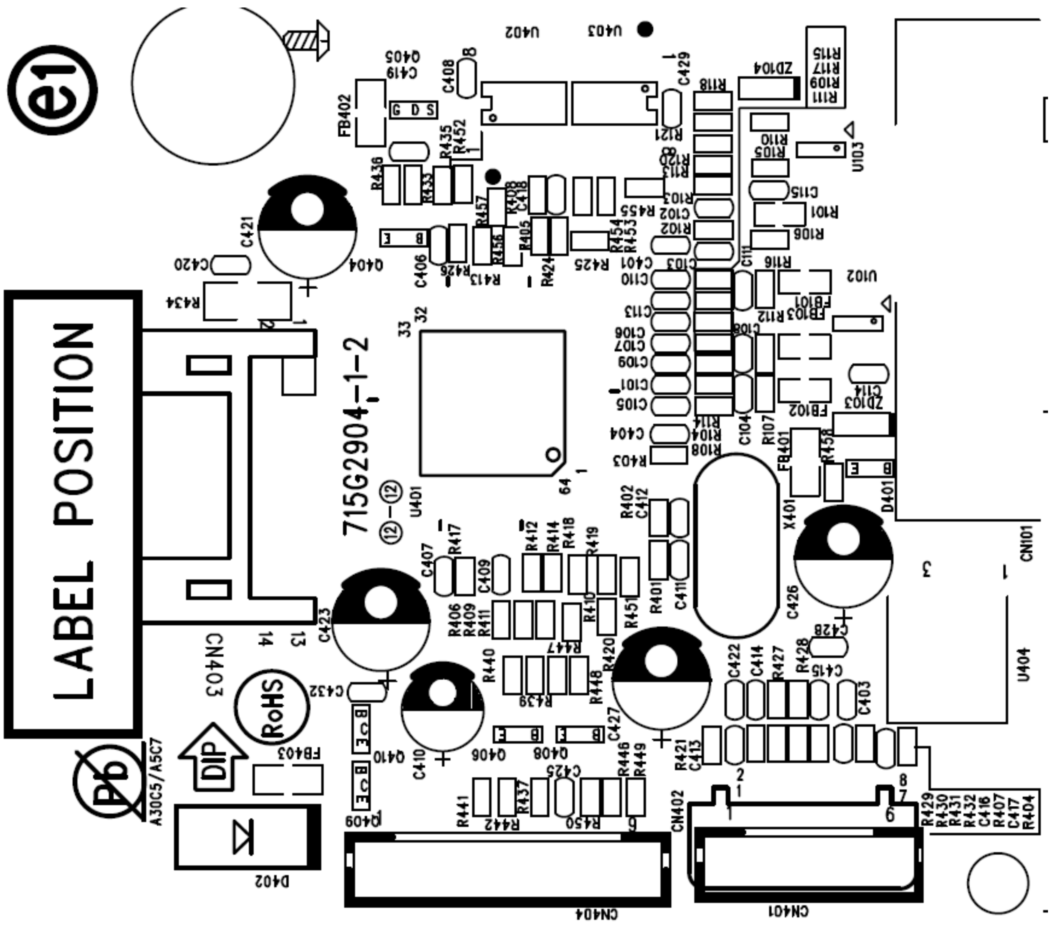
LBADC1	OK (2.0K)	1.435V
	UP (0)	1.042V
LBADC2	DOWN(2K)	1.042V
	MENU(1K)	1.435V

7. PCB Layout

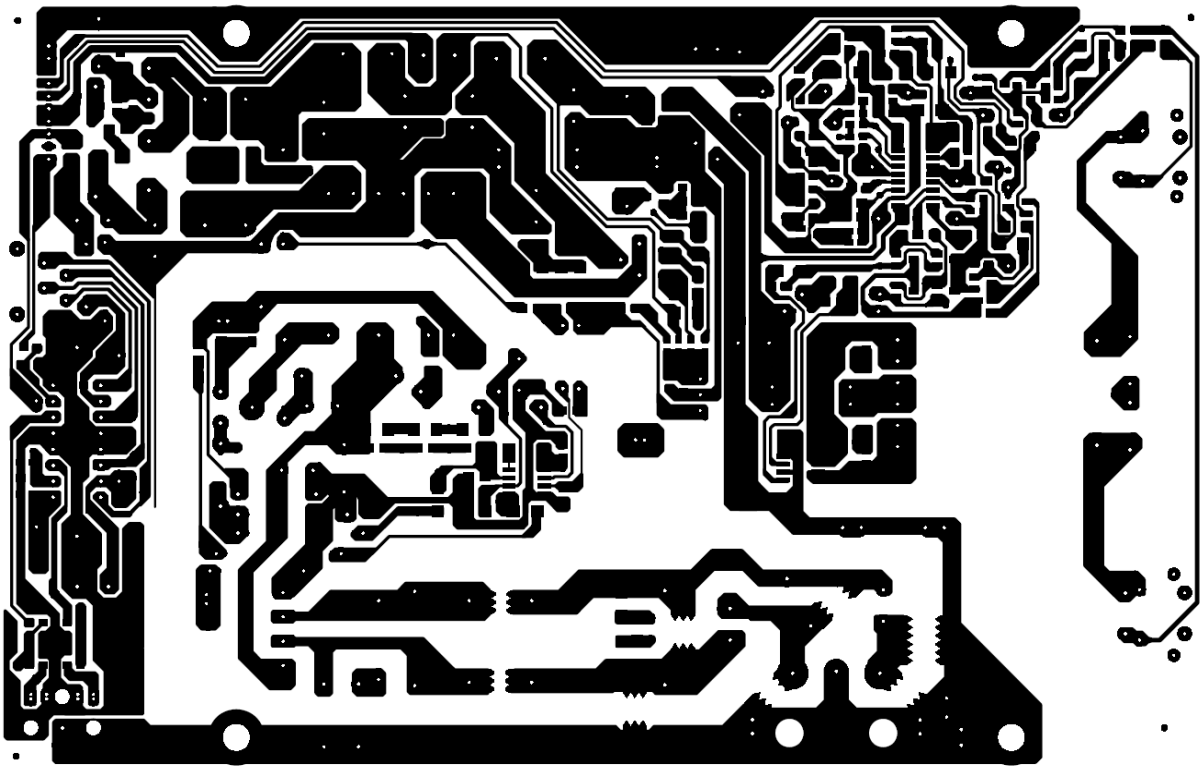
7.1 Main Board

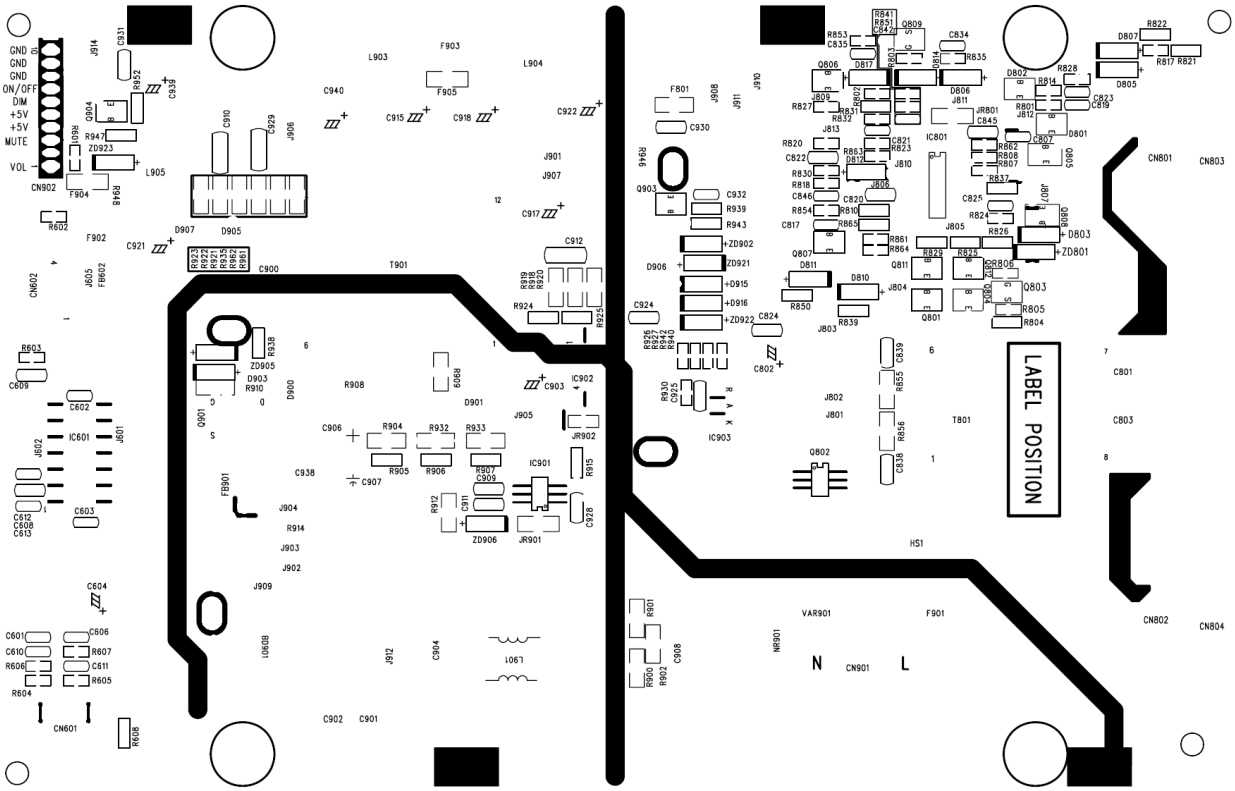


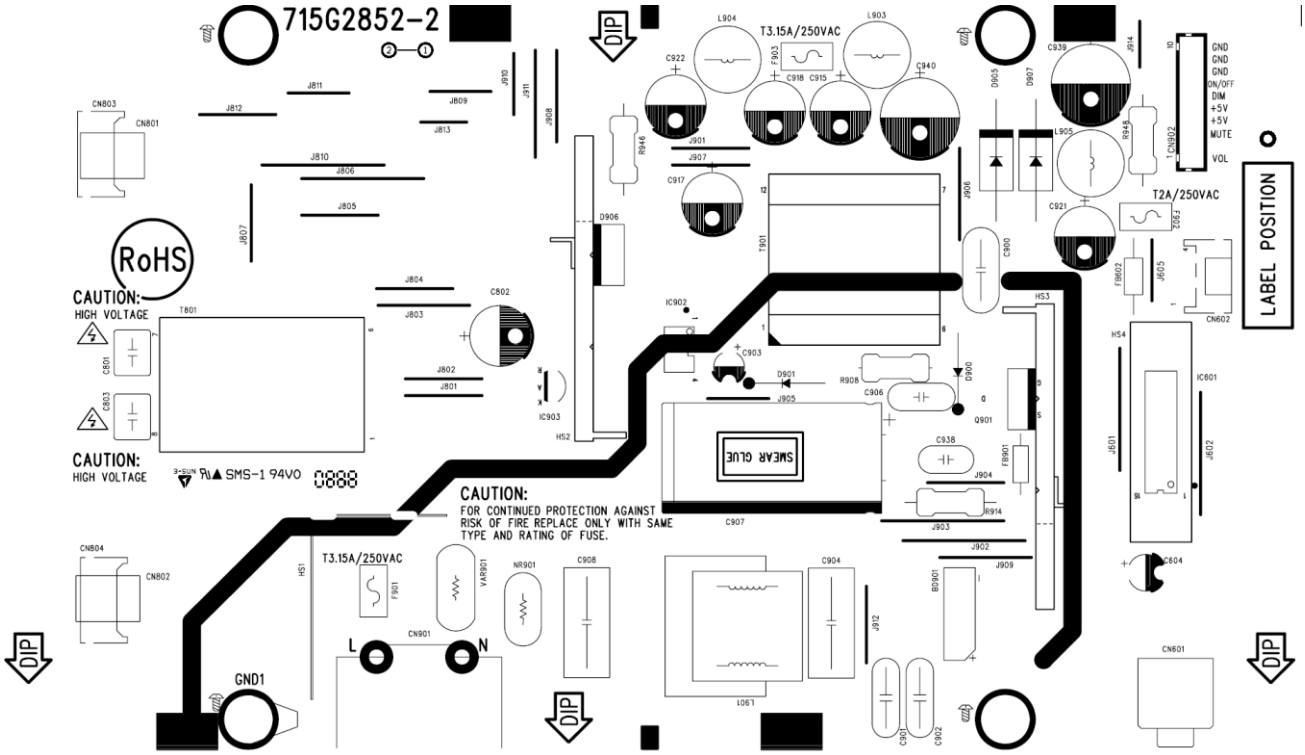



LABEL POSITION
715G2904-1-2
RoHS
DIP

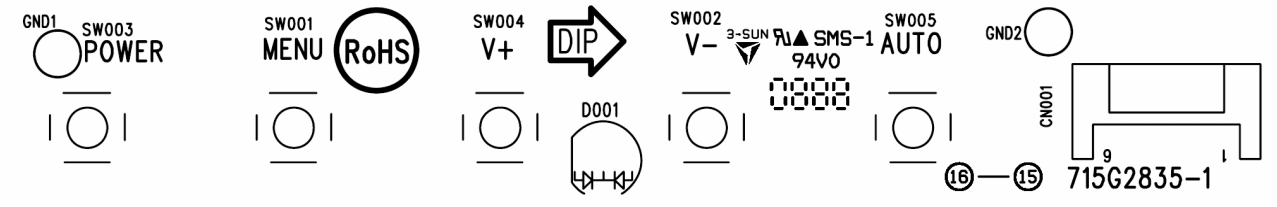
7.2 Power Board

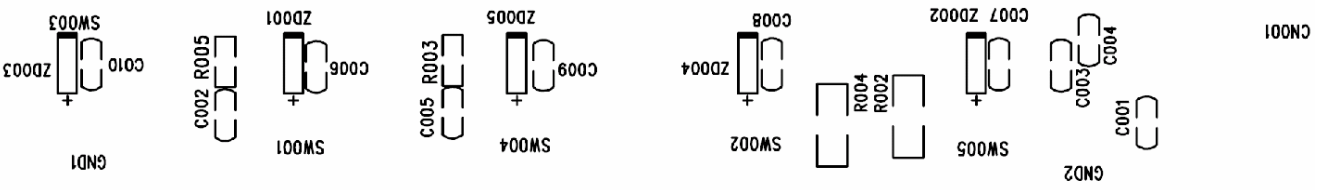





715G2852-2
T3.15A/250VAC
T2A/250VAC
RoHS
CAUTION:
HIGH VOLTAGE
CAUTION:
HIGH VOLTAGE
CAUTION:
FOR CONTINUED PROTECTION AGAINST
RISK OF FIRE REPLACE ONLY WITH SAME
TYPE AND RATING OF FUSE.
T3.15A/250VAC
SWEAR GLUE
LABEL POSITION
GND
GND
GND
ON/OFF
DIM
+5V
+5V
MUTE
VOL
L
N
GND1
DIP

7.3 Key Board


GND1
SW003
POWER
SW001
MENU
RoHS
SW004
V+
DIP
D001
SW002
V-
3-SUN SMS-1
94V0
SW005
AUTO
GND2
CN001
715G2835-1



8. Maintainability

8.1 Equipments and Tools Requirement

1. Multi-meter.
2. Oscilloscope.
3. Pattern Generator.
4. DDC Tool with and Compatible Computer.
5. Alignment Tool.
6. LCD Color Analyzer.
7. Service Manual.
8. User Manual.

If the monitor fails to operate correctly, please follow the steps below for a possible solution.

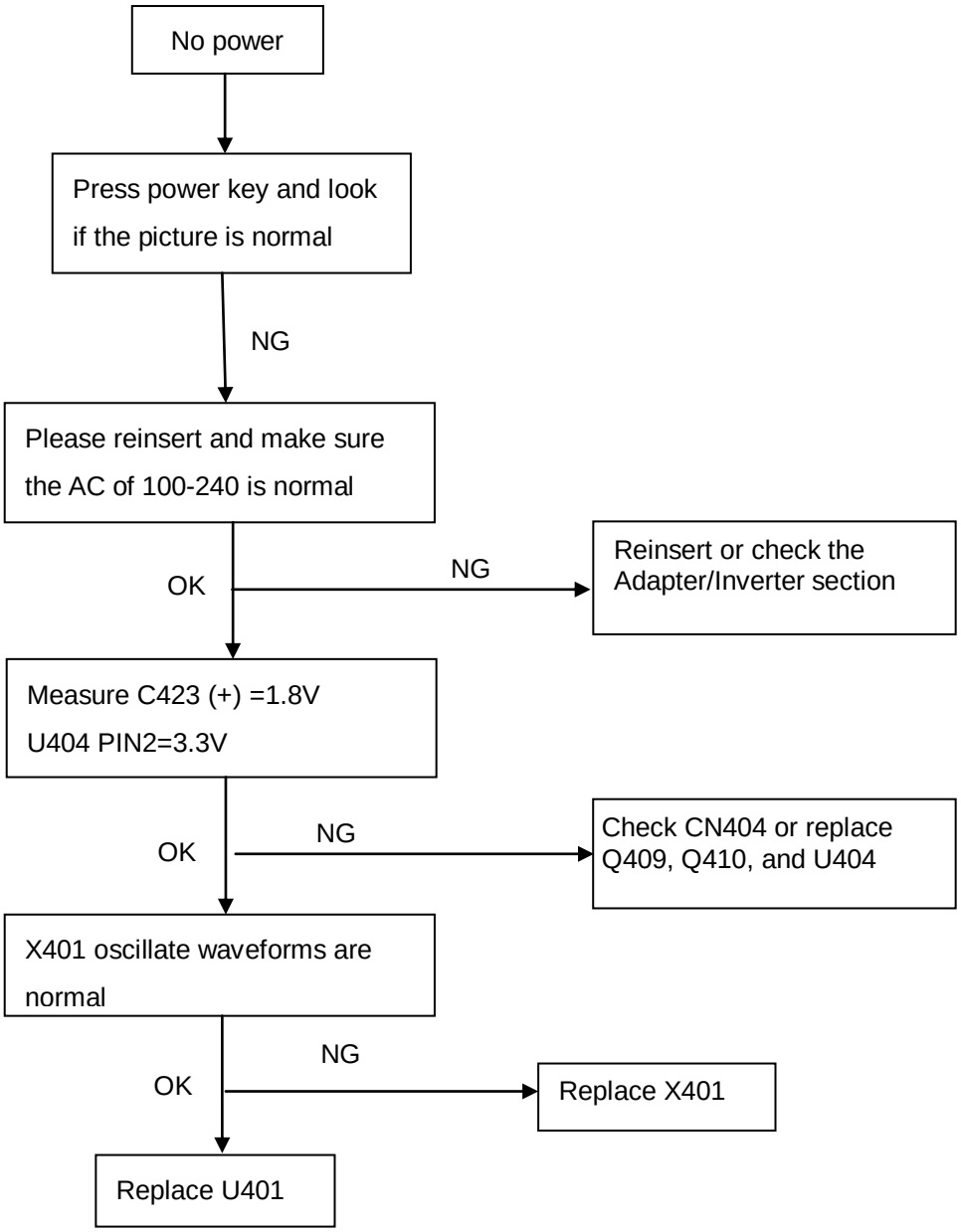
1. Perform the adjustments described in OPERATING THE MONITOR, depending on the problem you have. If the monitor does not get a picture, skip to 2.
2. Consult the following items if you cannot find an appropriate adjustment item in OPERATING THE MONITOR or if the problem persists.
3. If you are experiencing a problem which is not described below or you cannot correct the problem, discontinue using the monitor and contact your dealer or iiyama service center for further assistance.

Problem	Check
① The picture does not appear.	
(Power indicator does not light up.)	☐ The Power Cable is firmly seated in the socket. ☐ The Power Switch is turned ON. ☐ The AC socket is live. Please check with another piece of equipment.
(Power indicator is green/blue.)	☐ If the blank screen saver is in active mode, touch the keyboard or the mouse. ☐ Increase the Contrast and/or Brightness. ☐ The computer is ON. ☐ The Signal Cable is properly connected. ☐ The signal timing of the computer is within the specification of the monitor.
(Power indicator is orange.)	☐ If the monitor is in power management mode, touch the keyboard or the mouse. ☐ The computer is ON. ☐ The Signal Cable is properly connected. ☐ The signal timing of the computer is within the specification of the monitor.
② The screen is not synchronized.	☐ The Signal Cable is properly connected. ☐ The signal timing of the computer is within the specification of the monitor. ☐ The video output level of the computer is within the specification of the monitor.
③ The screen position is not in the center.	☐ The signal timing of the computer is within the specification of the monitor.
④ The screen is too bright or too dark.	☐ The video output level of the computer is within the specification of the monitor.
⑤ The screen is shaking.	☐ The power voltage is within the specification of the monitor. ☐ The signal timing of the computer is within the specification of the monitor.

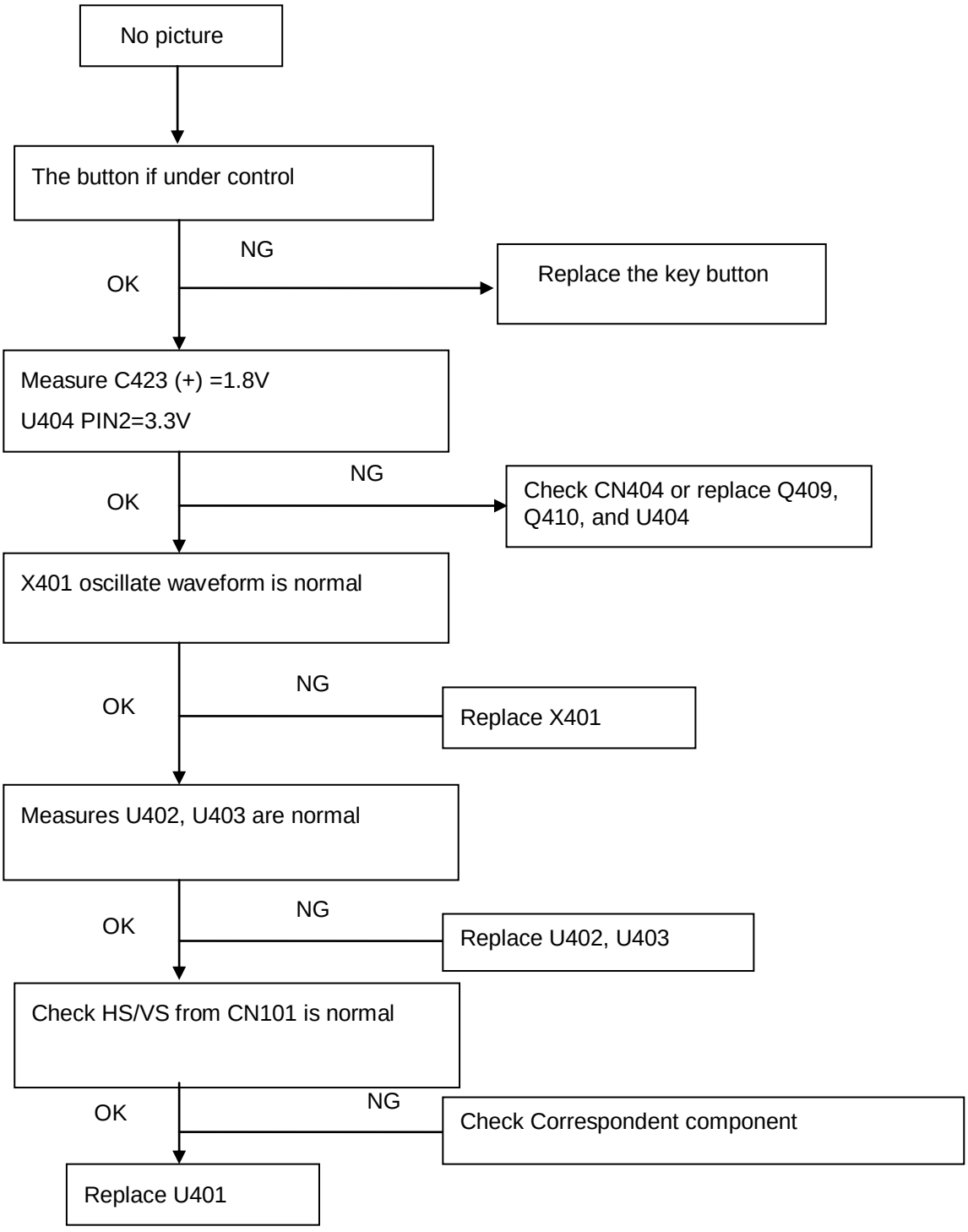
8.2 Trouble Shooting

8.2.1 Main Board

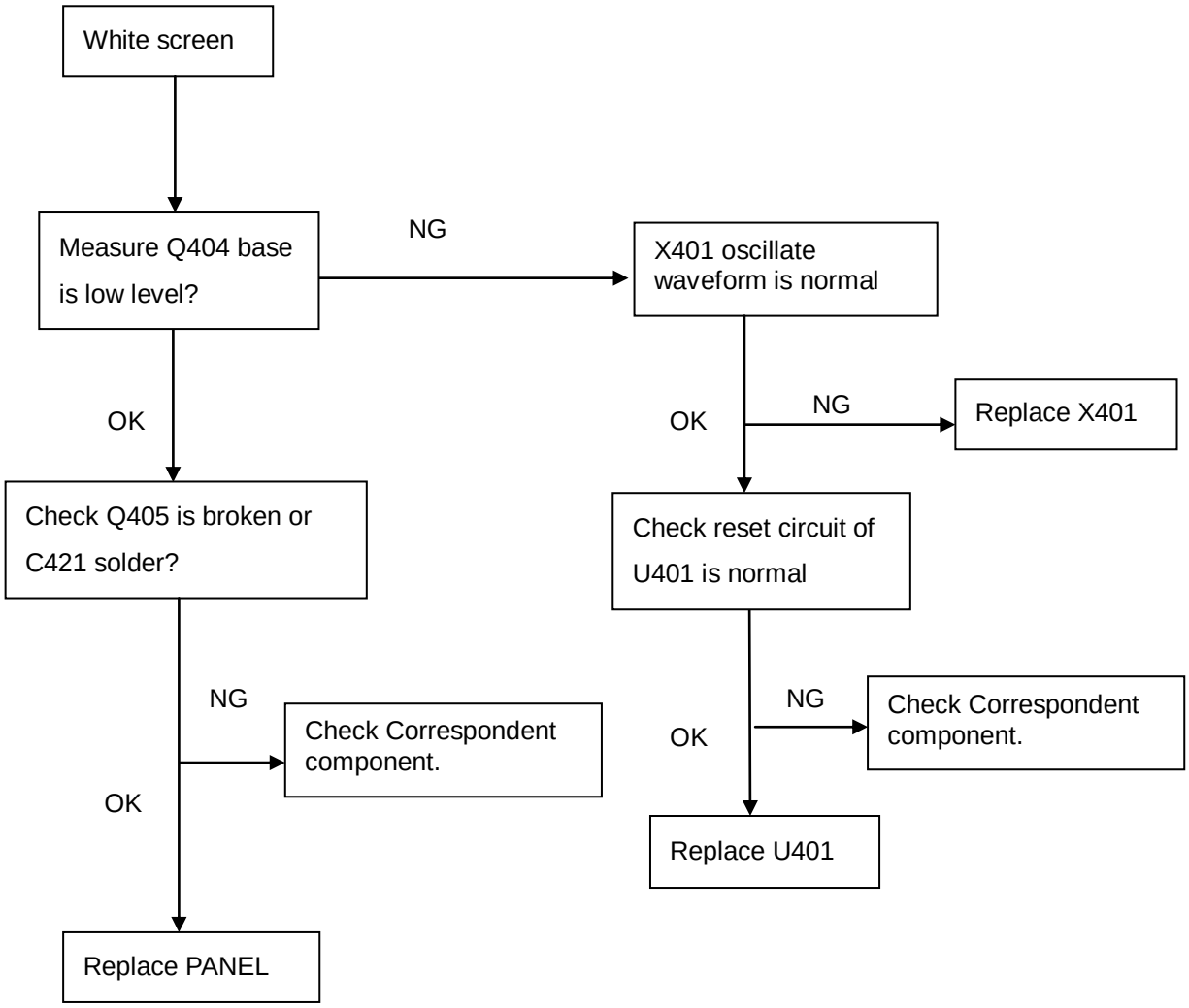
No power



No picture (LED orange)

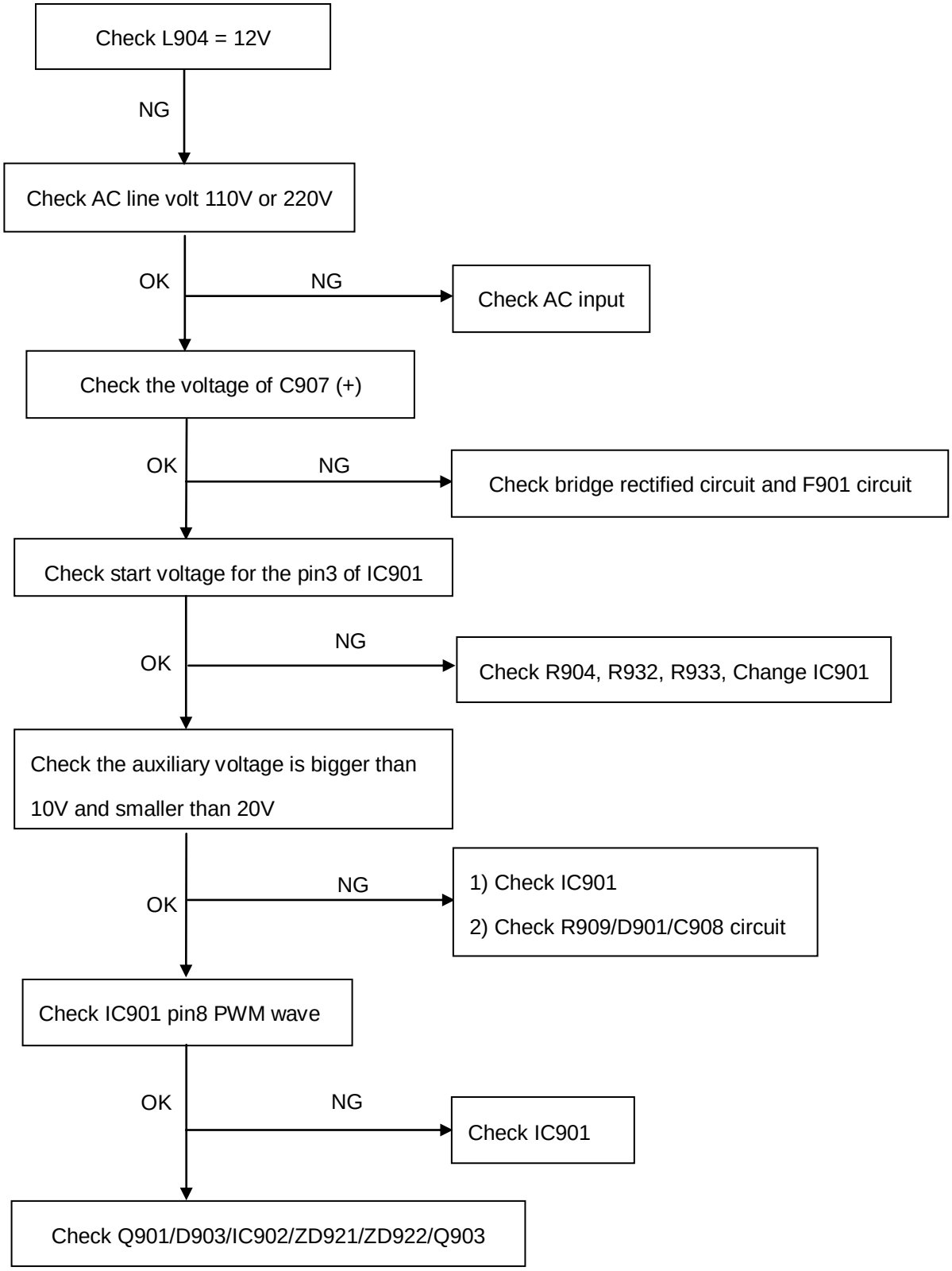


White screen

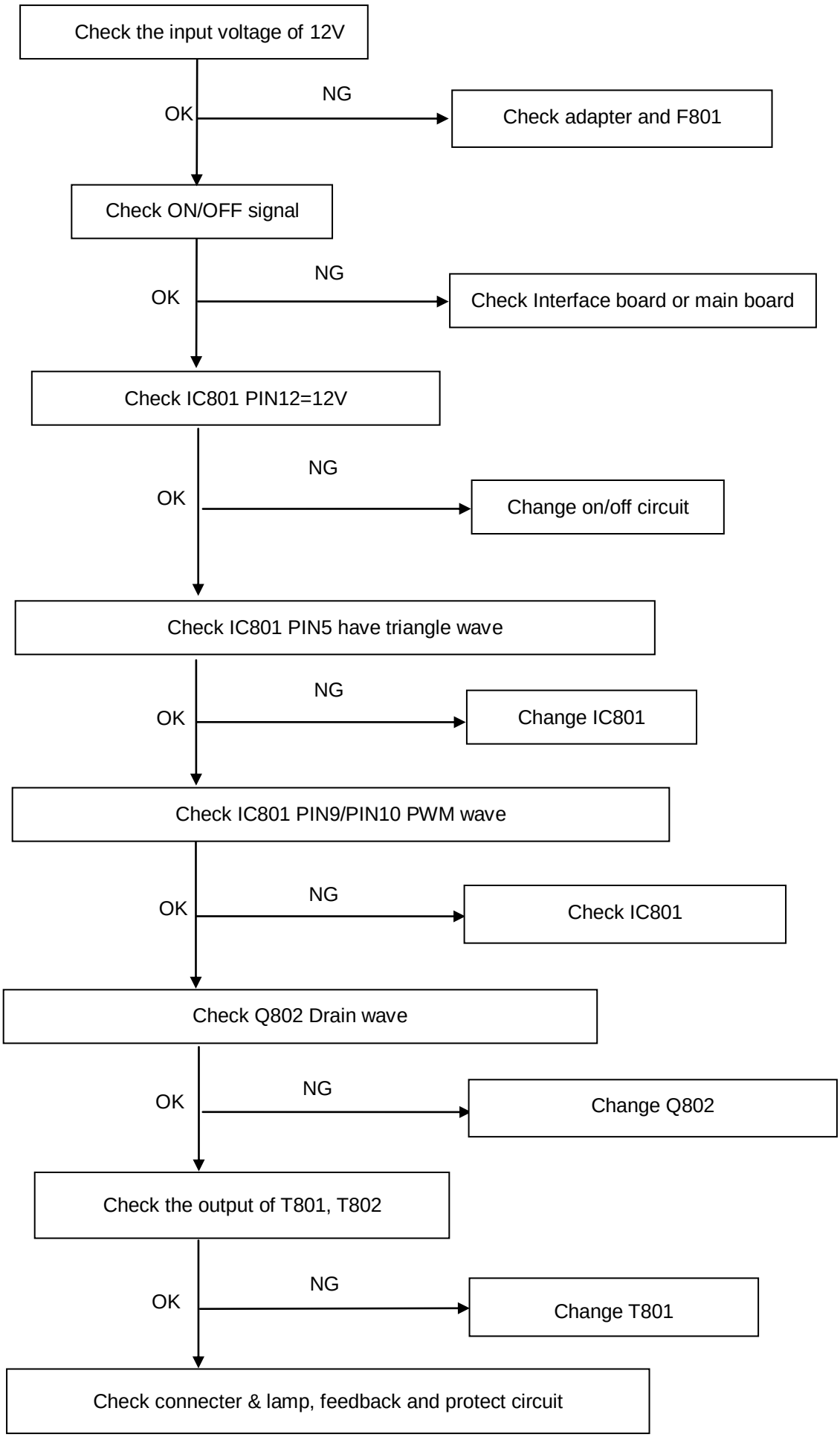


8.2.2 Power Board

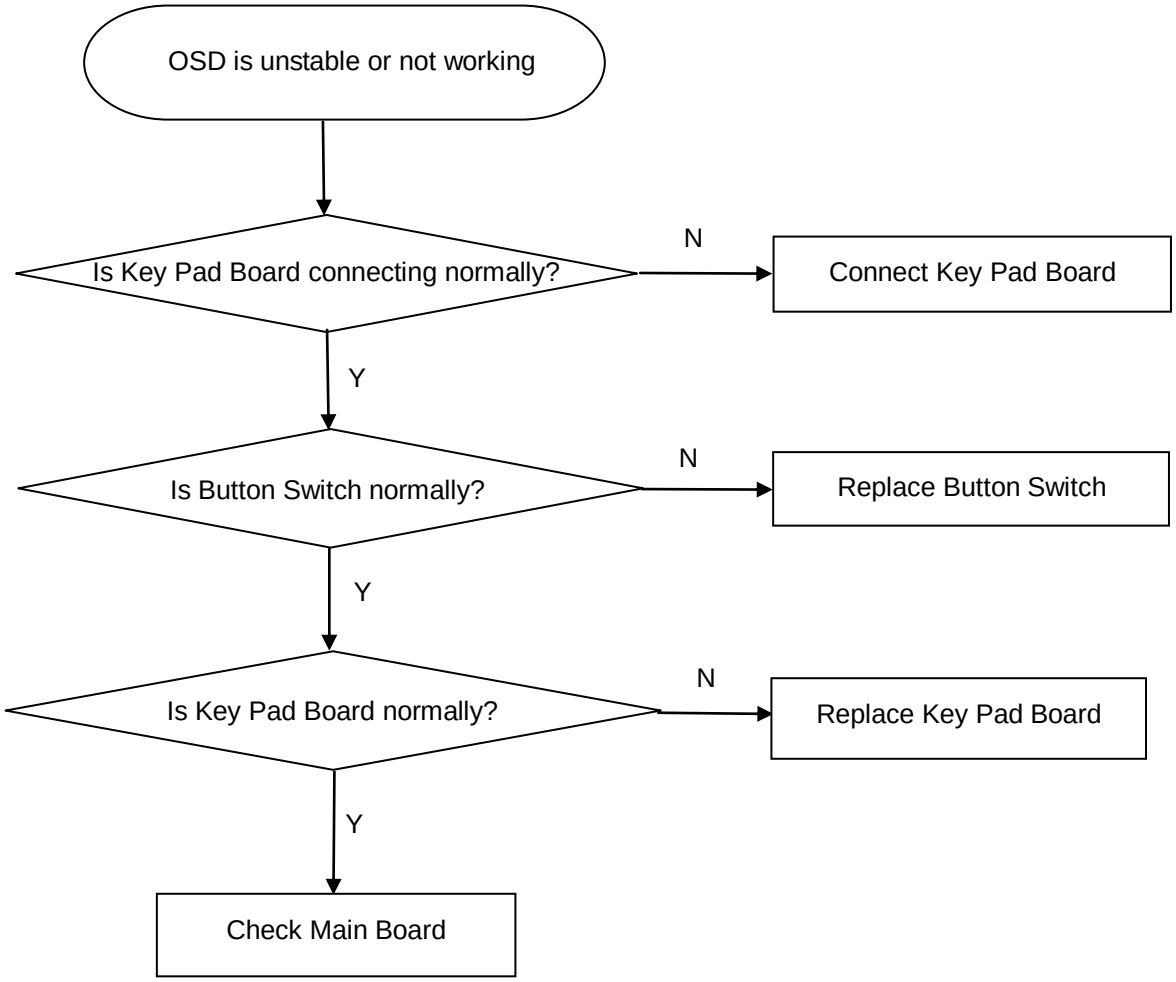
1) No power



2.) No Backlight



8.2.3 Key Board



9. White- Balance, Luminance Adjustment

Approximately 30 minutes should be allowed for warm up before proceeding white balance adjustment.

Before started adjust white balance , please set the Chroma-7120 MEM Channel 3 to Warm (6500K) color, MEM Channel 4 to Normal (7300K) color, MEM Channel 9 to Cool (9300K) color , and MEM Channel 10 to sRGB color (our Warm color parameter is x = 313 ±30, y = 329 ±30, Y>140cd/m^2; Normal color parameter is x = 302 ±30, y = 318 ±30, Y>130cd/m^2; Cool color parameter is x = 283 ±30, y = 297 ±30, Y>110cd/m^2; sRGB color parameter is x = 313 ±30, y = 329 ±30, Y>140cd/m^2)

How to setting MEM channel you can reference to chroma 7120 user guide or simple use " SC" key and " NEXT" Key to modify xyY value and use "ID" key to modify the TEXT description Following is the procedure to do white-balance adjust .

2. Setting the color temp. you want

A. MEM.CHANNEL 3 (Warm color):

Warm color temp. parameter is x = 313 ±30, y = 329 ±30, Y>140cd/m^2

B. MEM.CHANNEL 4 (Normal color):

Normal color temp. parameter is x = 302 ±30, y = 318 ±30, Y>130cd/m^2

C. MEM.CHANNEL 9 (Cool color):

Cool color temp. parameter is x = 283 ±30, y = 297 ±30, Y>110cd/m^2

D. MEM.CHANNEL 10 (sRGB color):

sRGB color temp. parameter is x = 313 ±30, y = 329 ±30, Y>140cd/m^2

3. Into Factory mode of AOC 1619Swa:

Press the MENU button, pull out the power cord, and then plug the power cord. Then the factory OSD will be at the left top of the panel.

4. Bias adjustment:

Set the **Contrast** to 50; Adjust the **Brightness** to 80.

5. Gain adjustment:

Move cursor to "-F-" and press MENU key

A. Adjust Warm (6500K) color-temperature

1. Switch the chroma-7120 to **RGB-Mode** (with press "MODE" button)
2. Switch the MEM.channel to Channel 3 (with up or down arrow on chroma 7120)
3. The LCD-indicator on chroma 7120 will show x = 313 ±30, y = 329 ±30, Y>140cd/m^2
4. Adjust the RED on factory window until chroma 7120 indicator reached the value R=100
5. Adjust the GREEN on factory window until chroma 7120 indicator reachedthe value G=100
6. Adjust the BLUE on factory window until chroma 7120 indicator reached the value B=100
7. Repeat above procedure (item 4, 5, 6) until chroma 7120 RGB value meet the tolerance =100±2

B. Adjust Normal (7300K) color-temperature

1. Switch the chroma-7120 to **RGB-Mode** (with press "MODE" button)
2. Switch the MEM.channel to Channel 4(with up or down arrow on chroma 7120)
3. The LCD-indicator on chroma 7120 will show x = 302 ±30, y = 318 ±30, Y>130cd/m^2
4. Adjust the RED on factory window until chroma 7120 indicator reached the value R=100

5. Adjust the GREEN on factory window until chroma 7120 indicator reachedthe value G=100
6. Adjust the BLUE on factory window until chroma 7120 indicator reached the value B=100
7. Repeat above procedure (item 4, 5, 6) until chroma 7120 RGB value meet the tolerance =100±2

C. Adjust Cool (9300K) color-temperature

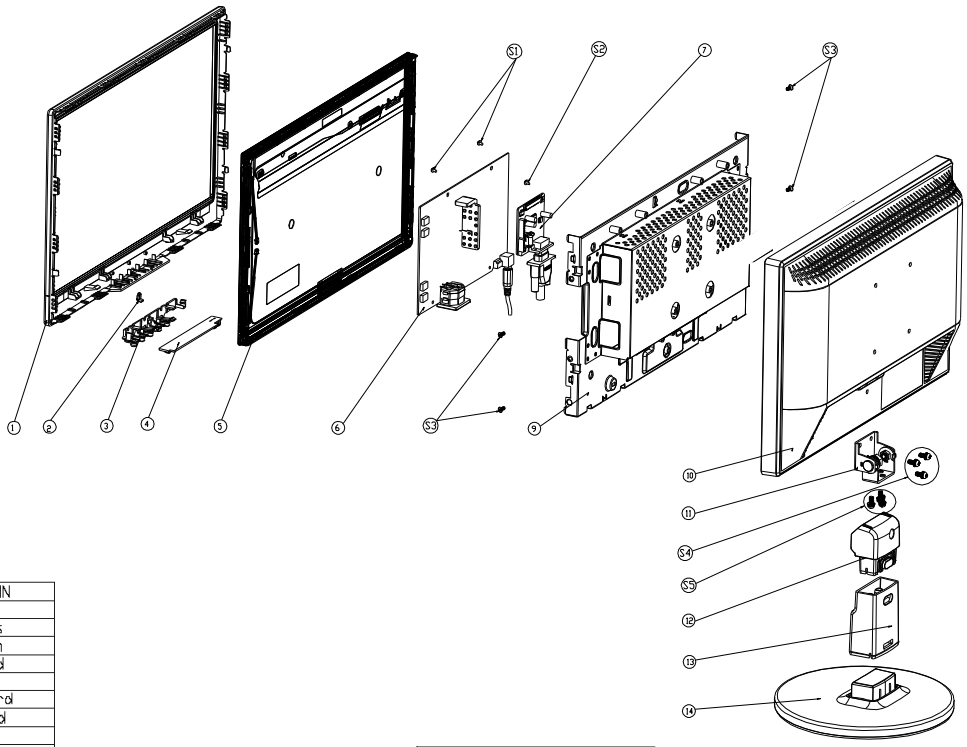
1. Switch the Chroma-7120 to **RGB-Mode** (with press “MODE” button)
2. Switch the MEM. Channel to Channel 9 (with up or down arrow on chroma 7120)
3. The LCD-indicator on chroma 7120 will show x = 283 ±30, y = 297 ±30, Y>110cd/m^2
4. Adjust the RED on factory window until chroma 7120 indicator reached the value R=100
5. Adjust the GREEN on factory window until chroma 7120 indicator reached the value G=100
6. Adjust the BLUE on factory window until chroma 7120 indicator reached the value B=100
7. Repeat above procedure (item 4, 5, 6) until chroma 7120 RGB value meet the tolerance =100±2

D. Adjust sRGB color-temperature

1. Switch the chroma-7120 to **RGB-Mode** (with press “MODE” button)
2. Switch the MEM.channel to Channel 10 (with up or down arrow on chroma 7120)
3. The LCD-indicator on chroma 7120 will show x = 313 ±30, y = 329 ±30, Y>140cd/m^2
4. Adjust the RED on factory window until chroma 7120 indicator reached the value R=100
5. Adjust the GREEN on factory window until chroma 7120 indicator reachedthe value G=100
6. Adjust the BLUE of on factory window until chroma 7120 indicator reached the value B=100
7. Repeat above procedure (item 4, 5, 6) until chroma 7120 RGB value meet the tolerance =100±2

E. Turn the Power-button off to quit from factory mode.

10. Monitor Exploded View



NO.	DESCRIPTION
1	Bezel
2	Power Lens
3	Key Button
4	key board
5	Panel
6	Power board
7	Main board
8	
9	Main frame
10	rear cover
11	Hinge
12	Top stand
13	Stand
14	Base
15	
16	
17	

NO.	DESCRIPTION
S1	POWER board/Main Frame=(2)
S2	main board/Main Frame=(1)
S3	Main Frame/Panel=(4)
S4	Hinge/Main Frame=(3)
S5	Hinge/Top Stand=(3)

11. BOM List

T68MM5NQWKA26N

Location	Part No.	Description
	007G 5 1 A	COMPOUND PALLET
	007G 5 10 1	COMPOUND PALLET
	026G 800504 3	BARCODE LABEL
	040G 154501 1	HI-POT GND LABEL
	040G 581 26646	EANCODE LABEL
	040G 58162461A	EPA LABEL
	044G6000 4E	CARTON
	045G 77 3	PE PACKING
	045G 77500	BARCODE RIBBON
	045G 77501	BARCODE RIBBON
	051G6001 2	DESICCANT
	052G 1150 C	INSULATING TAPE
	052G 1185	MIDDLE TAPE
	052G 1185 1	BIG TAPE
	052G 1186	SMALL TAPE
	052G 1211 A	165MINIUM TAPE
	052G6019 1	INSULATING TAPE
	750GLM56B1112N	PANEL M156B1-L01 NB CMO
E07801	078G 322 9A Y	SPK 8OHM 1.5W 145 200MM 43X18MM SUNLINK
	089G 17356C554	AUDIO CABLE
	089G 725CAA DB	D-SUB
	089G402A15NIS1	POWER CORD
	095G8014 6WH09	WIRE HARNESS 6P(PH)-6P(PH)
	095G8018B3D516	LVDS CABLE
	0M1G 130 5120	SCREW
	0M1G1730 6120	SCREW,42-D020523
	705GQ834030	LCD 15.6"STAND-BASE ASS'Y
	AM1G1740 12225 CR3	SCREW
	CBPC7MMRA1Q2	MAIN BOARD
	KEPC7QAL	KEY BOARD
	PWPC8521CYG1	POWER BOARD
	Q07G 8 2 2	COMPOUND PALLET
	Q15G0248201CKD	MAIN FRAME
	Q33G0170ABJ 1L0100	KEY PAD
	Q33G0171 1 1C0100	LENS
	Q34G0274ABJA1B0100	REAR COVER15.6"
	Q34G0295AEDA1B0100	BEZEL(L156WA-8Q1A)

	Q40G 15N61550A	RATING LABEL
	Q40G000260811A	BASIC LABEL
	Q41G7800615B55	SA SERVICE CENTER
	Q41G780A61571A	QSG
	Q44G 10 1	BIG CARTON FOR IC
	Q44G 10 2	CORNER PAPER FOR CKD
	Q45G 76 28CK2 R	PE BAG
	Q45G 88606CK2 R	PE BAG FOR BASE
	Q45G 88607 28	PE BAG FOR CLAMP/STAND
	Q45G 88CKD 2 R	PE BAG FOR MONITOR
	Q70G500A615 4A	CD MANUAL
	040G 581 26646	EANCODE LABEL
	Q44G600020L 1A	CARTON
	AM1G1740 12 47 CR3	SCREW
	Q12G6600 6	FOOT
	Q34G0297AED 1B0100	STAND TOP
	Q34G0298AED 1B0120	STAND
	Q34G0299AED 1B0100	BASE8S2
	Q37G0067012CKD	HINGE
	040G 45762412B	CBPC LABEL
CN401	033G3802 6	WAFER
CN404	033G3802 9	WAFER 9P RIGHT ANELE PITCH
CN403	033G8027 14 H	WAFER 14P 2.0MM DIP
C426	067G 3151014KV	EC 105℃ CAP 100UF M 25V
C427	067G 3151014KV	EC 105℃ CAP 100UF M 25V
C421	067G 3151014KV	EC 105℃ CAP 100UF M 25V
C423	067G 3151014KV	EC 105℃ CAP 100UF M 25V
C410	067G215V100 7R	LOW E.S.R 10UF +/-20% 50V
CN101	088G 35315F H	D-SUB 15PIN
X401	093G 22 53 J	14.31818MHZ/32PF/49US
CN001	033G3802 6H	WAFER 6P RIGHT ANGLE PITCH 2.0
SW002	077G 600 1GCJ	TACT SWITCH TSPB-2 -NP
SW001	077G 600 1GCJ	TACT SWITCH TSPB-2 -NP
SW004	077G 600 1GCJ	TACT SWITCH TSPB-2 -NP
SW003	077G 600 1GCJ	TACT SWITCH TSPB-2 -NP
SW005	077G 600 1GCJ	TACT SWITCH TSPB-2 -NP
LED001	081G 12 1F GH	LED 3PIN Φ3 GHZYG603D2-5B
	040G 45762412B	CBPC LABEL
CN602	033G3802 4 DH JF	WAFER
CN801	033G8021 2E F	WAFER

CN802	033G8021 2E F	WAFER
	051G 6 4503	GLUE_RTV
IC902	056G 139 3A	IC PC123Y22FZ0F
IC601	056G 616 34	IC APA2069JITUL 2.6W*2 PDIP-16
NR901	061G 58080 WT	8 OHM NCT
R908	061G152M10452T	RST MOFR 100KOHM +-5% 2WS
C904	063G 10722410S	CAP 0.22UF 275VAC
C908	063G 10722410S	CAP 0.22UF 275VAC
C801	065G 3J3006ET	30PF 5% SL 3KV TDK
C803	065G 3J3006ET	30PF 5% SL 3KV TDK
C902	065G305M1022BP	Y2 1000PF M 250VAC Y5P
C901	065G305M1022BP	Y2 1000PF M 250VAC Y5P
C900	065G306M3322BP	3300PF 20%
C918	067G 215681 4N GP	680UF +-20% 25V GP
C917	067G 215681 4N GP	680UF +-20% 25V GP
C907	067G 40Z10115K	CAP 105℃ 100UF M 450V
C922	067G215D4714KV	E.C 105℃ CAP 470UF M 25V ED SERIES
C802	067G215D4714KV	E.C 105℃ CAP 470UF M 25V ED SERIES
C939	067G215D8214KV	EC 105℃ CAP 820UF M 25V
C940	067G215S1024KV	EC 105℃ CAP 1000UF M 25V
C921	067G215S4713KT	470UF 16V
C915	067G215S4713KT	470UF 16V
L901	073L 174 40 HG	GBQM4.778.391
T901	080GL19T 26 T	X'FMR 460UH SRW24LQL-T15H016
CN901	087G 501 32 S	AC SOCKET
CN601	088G 30214K DC	PHONE JACK 5PIN
BD901	093G 50460 28	BRIDGE DIODE KBP208G LITEON
D905	093G3006 1 1	31DQ06FC3 NIHON INTER
D907	093G3006 1 1	31DQ06FC3 NIHON INTER
CN902	095G 82010D508	WIRE HARNESS 10P(SAN)-9P(PH) 100MM
	705GQ757011	Q901 ASS'Y
	705GQ793053	D906 ASS'Y
L905	S73G25391V1	CHOKE COIL ASS'Y
L904	S73G25391V1	CHOKE COIL ASS'Y
L903	S73G25391V1	CHOKE COIL ASS'Y
T801	S80GL17T40V	TRANSFORMER ASS'Y
U401	056G 562557	IC TSUM1PFR-LF
U404	056G 563 52	IC AP1117D33LA TO252-3L ATC
U103	056G 662 13	IC AZC099-04S SOT23-6L
U102	056G 662 13	IC AZC099-04S SOT23-6L

U402	056G1133 81(WA8MRT5MAQ1)	SST25LF020A-33-4C-SAE
Q404	057G 417 6	PMBS3906/PHILIPS-SMT(06)
Q406	057G 417 12 T	KEC 2N3904S-RTK/PS
Q408	057G 417 12 T	KEC 2N3904S-RTK/PS
Q410	057G 417 22 T	TRA KN2907AS -60V/-0.6A SOT-23
Q409	057G 417 22 T	TRA KN2907AS -60V/-0.6A SOT-23
Q405	057G 763 1	A03401 SOT23 BY AOS(A1)
R457	061G0402000	RST CHIPR 0 OHM +-5% 1/16W
R456	061G0402000	RST CHIPR 0 OHM +-5% 1/16W
R402	061G0402000	RST CHIPR 0 OHM +-5% 1/16W
R401	061G0402000	RST CHIPR 0 OHM +-5% 1/16W
R102	061G0402101	RST CHIPR 100 OHM +-5% 1/16W
R103	061G0402101	RST CHIPR 100 OHM +-5% 1/16W
R104	061G0402101	RST CHIPR 100 OHM +-5% 1/16W
R411	061G0402101	RST CHIPR 100 OHM +-5% 1/16W
R412	061G0402101	RST CHIPR 100 OHM +-5% 1/16W
R115	061G0402101	RST CHIPR 100 OHM +-5% 1/16W
R114	061G0402101	RST CHIPR 100 OHM +-5% 1/16W
R113	061G0402101	RST CHIPR 100 OHM +-5% 1/16W
R111	061G0402101	RST CHIPR 100 OHM +-5% 1/16W
R110	061G0402101	RST CHIPR 100 OHM +-5% 1/16W
R108	061G0402101	RST CHIPR 100 OHM +-5% 1/16W
R117	061G0402101	RST CHIPR 100 OHM +-5% 1/16W
R405	061G0402101	RST CHIPR 100 OHM +-5% 1/16W
R442	061G0402101	RST CHIPR 100 OHM +-5% 1/16W
R426	061G0402101	RST CHIPR 100 OHM +-5% 1/16W
R420	061G0402101	RST CHIPR 100 OHM +-5% 1/16W
R419	061G0402101	RST CHIPR 100 OHM +-5% 1/16W
R418	061G0402101	RST CHIPR 100 OHM +-5% 1/16W
R413	061G0402101	RST CHIPR 100 OHM +-5% 1/16W
R441	061G0402102	RST CHIPR 1 KOHM +-5% 1/16W
R118	061G0402102	RST CHIPR 1 KOHM +-5% 1/16W
R421	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W
R417	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W
R408	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W
R407	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W
R406	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W
R404	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W
R121	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W
R120	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W

R439	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W
R447	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W
R433	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W
R437	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W
R436	061G0402104	RST CHIPR 100 KOHM +-5% 1/16W
R410	061G0402121	RST CHIP 120R 1/16W 5%
R414	061G0402121	RST CHIP 120R 1/16W 5%
R409	061G0402203	RST CHIP 20K 1/16W 5%
R106	061G0402222	RST CHIPR 2.2 KOHM +-5% 1/16W
R105	061G0402222	RST CHIPR 2.2 KOHM +-5% 1/16W
R403	061G0402390 0F	RST CHIP 390R 1/16W 1%
R109	061G0402390 0F	RST CHIP 390R 1/16W 1%
R427	061G0402392	RST CHIP 3.9K 1/16W 5%
R428	061G0402392	RST CHIP 3.9K 1/16W 5%
R448	061G0402472	RST CHIPR 4.7 KOHM +-5% 1/16W
R440	061G0402472	RST CHIPR 4.7 KOHM +-5% 1/16W
R435	061G0402472	RST CHIPR 4.7 KOHM +-5% 1/16W
R107	061G0402750	RST CHIPR 75 OHM +-5% 1/16W
R112	061G0402750	RST CHIPR 75 OHM +-5% 1/16W
R116	061G0402750	RST CHIPR 75 OHM +-5% 1/16W
R101	061G0603000	RST CHIPR 0 OHM +-5% 1/10W
R434	061G1206331	RST CHIPR 330 OHM +-5% 1/4W
C420	065G0402104 15	MLCC 0402 0.1UF K 16V X5R
C432	065G0402104 15	MLCC 0402 0.1UF K 16V X5R
C428	065G0402104 15	MLCC 0402 0.1UF K 16V X5R
C422	065G0402104 15	MLCC 0402 0.1UF K 16V X5R
C419	065G0402104 15	MLCC 0402 0.1UF K 16V X5R
C417	065G0402104 15	MLCC 0402 0.1UF K 16V X5R
C416	065G0402104 15	MLCC 0402 0.1UF K 16V X5R
C415	065G0402104 15	MLCC 0402 0.1UF K 16V X5R
C414	065G0402104 15	MLCC 0402 0.1UF K 16V X5R
C413	065G0402104 15	MLCC 0402 0.1UF K 16V X5R
C409	065G0402104 15	MLCC 0402 0.1UF K 16V X5R
C407	065G0402104 15	MLCC 0402 0.1UF K 16V X5R
C406	065G0402104 15	MLCC 0402 0.1UF K 16V X5R
C404	065G0402104 15	MLCC 0402 0.1UF K 16V X5R
C403	065G0402104 15	MLCC 0402 0.1UF K 16V X5R
C401	065G0402104 15	MLCC 0402 0.1UF K 16V X5R
C412	065G0402220 31	CHIP 22PF 50V NPO
C411	065G0402220 31	CHIP 22PF 50V NPO

C103	065G0402220 31	CHIP 22PF 50V NPO
C102	065G0402220 31	CHIP 22PF 50V NPO
C408	065G0402224 17	CAP CER 0.22UF -20%-80%
C101	065G0402473 12	CHIP 0.047UF 16V X7R
C105	065G0402473 12	CHIP 0.047UF 16V X7R
C106	065G0402473 12	CHIP 0.047UF 16V X7R
C107	065G0402473 12	CHIP 0.047UF 16V X7R
C109	065G0402473 12	CHIP 0.047UF 16V X7R
C110	065G0402473 12	CHIP 0.047UF 16V X7R
C113	065G0402473 12	CHIP 0.047UF 16V X7R
C104	065G0402509 31	CHIP 5PF 50V NPO
C108	065G0402509 31	CHIP 5PF 50V NPO
C111	065G0402509 31	CHIP 5PF 50V NPO
FB402	071G 56K121 M	CHIP BEAD
FB401	071G 56V301 B	CHIP BEAD FCM2012VF-301T07 BULLWILL
FB101	071G 59K190 B	19 OHM BEAD
FB102	071G 59K190 B	19 OHM BEAD
FB103	071G 59K190 B	19 OHM BEAD
D401	093G 64 33	DIO SIG SM BAV99 (PHSE)R
ZD103	093G 39S 34 T	UDZSNP5.6B ROHM
ZD104	093G 39S 34 T	UDZSNP5.6B ROHM
D402	093G3004 3	SM340A
	715G2904 1 2	MAIN BOARD PCB
R003	061G0603000 1F	RST CHIPR 0 OHM +-1% 1/10W
R005	061G0603100 1F	RST CHIPR 1 KOHM +-1% 1/10W
R004	061G1206200 1F	RST CHIPR 2.0 KOHM +-1% 1/4W
R002	061G1206200 1F	RST CHIPR 2.0 KOHM +-1% 1/4W
	715G2835 1	KEY BOARD PCB
Q901	057G 724 11	STP9NK65ZFP
	0M1G1730 8120	SCREW
HS3	Q90G6263 3	HEAT SINK
D906	093G 60250	FCH10U10
	0M1G1730 8120	SCREW
HS2	Q90G6263 3	HEAT SINK
IC801	056G 379 22	IC TL494IDR SOIC-16
IC901	056G 379 76	IC LD7552BPS SOP-8
Q904	057G 417 4	PMBS3904/PHILIPS-SMT(04)
Q903	057G 417 4	PMBS3904/PHILIPS-SMT(04)
Q811	057G 417 4	PMBS3904/PHILIPS-SMT(04)
Q806	057G 417 4	PMBS3904/PHILIPS-SMT(04)

Q801	057G 417 4	PMBS3904/PHILIPS-SMT(04)
Q812	057G 417 6	PMBS3906/PHILIPS-SMT(06)
Q804	057G 417 6	PMBS3906/PHILIPS-SMT(06)
Q809	057G 759 2	RK7002
Q808	057G 760 4B	PDTA144WK SOT346
Q805	057G 760 5B	PDTC144WK SOT346
Q802	057G 763 14	AM9945N
R823	061G0603000	RST CHIPR 0 OHM +-5% 1/10W
R942	061G0603100 1F	RST CHIPR 1 KOHM +-1% 1/10W
R926	061G0603100 1F	RST CHIPR 1 KOHM +-1% 1/10W
R827	061G0603100 1F	RST CHIPR 1 KOHM +-1% 1/10W
R818	061G0603100 1F	RST CHIPR 1 KOHM +-1% 1/10W
R824	061G0603100 1F	RST CHIPR 1 KOHM +-1% 1/10W
R802	061G0603100 2F	RST CHIPR 10K OHM +-1% 1/10W
R807	061G0603100 2F	RST CHIPR 10K OHM +-1% 1/10W
R808	061G0603100 2F	RST CHIPR 10K OHM +-1% 1/10W
R817	061G0603100 2F	RST CHIPR 10K OHM +-1% 1/10W
R820	061G0603100 2F	RST CHIPR 10K OHM +-1% 1/10W
R828	061G0603100 2F	RST CHIPR 10K OHM +-1% 1/10W
R832	061G0603100 2F	RST CHIPR 10K OHM +-1% 1/10W
R863	061G0603100 2F	RST CHIPR 10K OHM +-1% 1/10W
R601	061G0603103	RST CHIPR 10 KOHM +-5% 1/10W
R602	061G0603103	RST CHIPR 10 KOHM +-5% 1/10W
R603	061G0603103	RST CHIPR 10 KOHM +-5% 1/10W
R604	061G0603103	RST CHIPR 10 KOHM +-5% 1/10W
R605	061G0603103	RST CHIPR 10 KOHM +-5% 1/10W
R862	061G0603105	RST CHIPR 1M OHM +-5% 1/10W
R835	061G0603105	RST CHIPR 1M OHM +-5% 1/10W
R801	061G0603150 1F	RST CHIPR 1.5 KOHM +-1% 1/10W
R814	061G0603150 1F	RST CHIPR 1.5 KOHM +-1% 1/10W
R930	061G0603243 1F	RST CHIPR 2.43K OHM +-1% 1/10W
R940	061G0603330 2F	RST CHIPR 33K OHM +-1% 1/10W
R927	061G0603360 1F	RST CHIPR 3.6K OHM +-1% 1/10W
R606	061G0603562	RST CHIPR 5.6 KOHM +-5% 1/10W
R607	061G0603562	RST CHIPR 5.6 KOHM +-5% 1/10W
R851	061G0603680 1F	RST CHIPR 6.8 KOHM +-1% 1/10W
R841	061G0603680 2F	RST CHIPR 68K OHM +-1% 1/10W
R853	061G0603683	RST CHIPR 68K OHM +-5% 1/10W
R803	061G0603684	RST CHIPR 680 KOHM +-5% 1/10W
JR902	061G0805000	RST CHIPR 0 OHM +-5% 1/8W

R822	061G0805100 1F	RST CHIPR 1K OHM +-1% 1/8W
R831	061G0805100 1F	RST CHIPR 1K OHM +-1% 1/8W
R821	061G0805100 1F	RST CHIPR 1K OHM +-1% 1/8W
R915	061G0805100 3F	RST CHIPR 100KOHM +-1% 1/8W
R804	061G0805101	RST CHIPR 100 OHM +-5% 1/8W
R952	061G0805102	RST CHIPR 1K OHM +-5% 1/8W
R939	061G0805102	RST CHIPR 1K OHM +-5% 1/8W
R925	061G0805102	RST CHIPR 1K OHM +-5% 1/8W
R826	061G0805102	RST CHIPR 1K OHM +-5% 1/8W
R938	061G0805103	RST CHIPR 10K OHM +-5% 1/8W
R608	061G0805109	RST CHIPR 1 OHM +-5% 1/8W
R924	061G0805151	RST CHIPR 150 OHM +-5% 1/8W
R850	061G0805220	RST CHIPR 22 OHM +-1% 1/8W
R839	061G0805220	RST CHIPR 22 OHM +-1% 1/8W
R829	061G0805220	RST CHIPR 22 OHM +-1% 1/8W
R825	061G0805220	RST CHIPR 22 OHM +-1% 1/8W
R947	061G0805471	RST CHIPR 470 OHM +-5% 1/8W
R943	061G0805471	RST CHIPR 470 OHM +-5% 1/8W
R837	061G0805473	RST CHIPR 47K OHM +-5% 1/8W
R810	061G0805510 2F	RST CHIPR 51K OHM +-1% 1/8W
JR801	061G1206000	RST CHIPR 0 OHM +-5% 1/4W
JR901	061G1206000	RST CHIPR 0 OHM +-5% 1/4W
F904	061G1206000	RST CHIPR 0 OHM +-5% 1/4W
F801	061G1206000 4	RST CHIPR 0 OHM +-5% 1/4W
F905	061G1206000 4	RST CHIPR 0 OHM +-5% 1/4W
R910	061G1206100	RST CHIPR 10 OHM +-5% 1/4W
R918	061G1206101	RST CHIPR 100 OHM +-5% 1/4W
R962	061G1206101	RST CHIPR 100 OHM +-5% 1/4W
R961	061G1206101	RST CHIPR 100 OHM +-5% 1/4W
R935	061G1206101	RST CHIPR 100 OHM +-5% 1/4W
R923	061G1206101	RST CHIPR 100 OHM +-5% 1/4W
R922	061G1206101	RST CHIPR 100 OHM +-5% 1/4W
R921	061G1206101	RST CHIPR 100 OHM +-5% 1/4W
R920	061G1206101	RST CHIPR 100 OHM +-5% 1/4W
R919	061G1206101	RST CHIPR 100 OHM +-5% 1/4W
R855	061G1206150	RST CHIPR 15 OHM +-5% 1/4W
R856	061G1206150	RST CHIPR 15 OHM +-5% 1/4W
R912	061G1206221	RST CHIPR 220 OHM +-5% 1/4W
R904	061G1206304	RST CHIPR 300K OHM +-5% 1/4W
R932	061G1206304	RST CHIPR 300K OHM +-5% 1/4W

R933	061G1206304	RST CHIPR 300K OHM +-5% 1/4W
R909	061G1206519	RST CHIPR 5.1 OHM +-5% 1/4W
R900	061G1206684	RST CHIPR 680K OHM +-5% 1/4W
R901	061G1206684	RST CHIPR 680K OHM +-5% 1/4W
R902	061G1206684	RST CHIPR 680K OHM +-5% 1/4W
C610	065G0603101 31	CER1 0603 NP0 50V 100P PM5 R
C611	065G0603101 31	CER1 0603 NP0 50V 100P PM5 R
C932	065G0603102 32	1000PF +-10% 50V X7R
C842	065G0603103 32	CAP CHIP 0603 0.01UF K 50V X7R
C612	065G0603104 12	CER2 0603 X7R 16V 100N P
C613	065G0603104 12	CER2 0603 X7R 16V 100N P
C807	065G0603104 22	CAP CHIP 0603 0.1UF K 25V X7R
C821	065G0603104 22	CAP CHIP 0603 0.1UF K 25V X7R
C825	065G0603104 22	CAP CHIP 0603 0.1UF K 25V X7R
C834	065G0603104 22	CAP CHIP 0603 0.1UF K 25V X7R
C819	065G0603222 22	CHIP 2200PF 25V X7R
C823	065G0603222 22	CHIP 2200PF 25V X7R
C601	065G0603474 12	MLCC 0603 0.47UF K 16V X7R
C602	065G0603474 12	MLCC 0603 0.47UF K 16V X7R
C603	065G0603474 12	MLCC 0603 0.47UF K 16V X7R
C606	065G0603474 12	MLCC 0603 0.47UF K 16V X7R
C928	065G0805103 32	CAP CHIP 0805 10NF K 50V X7R
C931	065G0805104 32	CAP CHIP 0805 0.1UF K 50V X7R
C930	065G0805104 32	CAP CHIP 0805 0.1UF K 50V X7R
C924	065G0805104 32	CAP CHIP 0805 0.1UF K 50V X7R
C911	065G0805104 32	CAP CHIP 0805 0.1UF K 50V X7R
C824	065G0805104 32	CAP CHIP 0805 0.1UF K 50V X7R
C822	065G0805105 22	CAP CHIP 0805 1UF K 25V X7R
C609	065G0805105 22	CAP CHIP 0805 1UF K 25V X7R
C608	065G0805105 22	CAP CHIP 0805 1UF K 25V X7R
C839	065G0805152 31	1.5NF/50V
C838	065G0805152 31	1.5NF/50V
C820	065G080522131G	CAP CHIP 0805 220PF G 50V NPO
C845	065G0805225 12	CAP CHIP 0805 2.2UF K 16V X7R
C909	065G0805471 21	CAP CHIP 0805 470PF J 25V NPO
C910	065G1206102 72	CAP CHIP 1206 1000PF K 500V X7R
C912	065G1206102 72	CAP CHIP 1206 1000PF K 500V X7R
C929	065G1206102 72	CAP CHIP 1206 1000PF K 500V X7R
D802	093G 64 33	DIO SIG SM BAV99 (PHSE)R
D801	093G 64 33	DIO SIG SM BAV99 (PHSE)R

ZD906	093G 39S 20 T	RLZ22B LLDS
ZD923	093G 39S 24 T	RLZ 5.6B LLDS
ZD922	093G 39S 25 T	RLZ5.1B LLDS
ZD921	093G 39S 40 T	RLZ 13B LLDS
ZD902	093G 39S 40 T	RLZ 13B LLDS
ZD905	093G 39S 44 T	RLZ18B LLDS
D805	093G 64S522SEM	LL4148
D806	093G 64S522SEM	LL4148
D807	093G 64S522SEM	LL4148
D812	093G 64S522SEM	LL4148
D814	093G 64S522SEM	LL4148
D817	093G 64S522SEM	LL4148
D903	093G 64S522SEM	LL4148
D915	093G 64S522SEM	LL4148
D916	093G 64S522SEM	LL4148
CN901	006G 31500	EYELET
IC903	056G 158 10 T	IC AZ431AZ-AE1 TO-92 BY AAC
R946	061G152M15152T	RST MOFR 150 OHM +-5% 2WS
R914	061G152M47852T	RST MOFR 0.47 OHM +-5% 2WS
R948	061G152M56052T	RST MOFR 56 OHM +-5% 2WS
C906	065G 2K152 1T6213	CAP CER 1500PF K 2KV
C903	067G 2152207NT	KY50VB22M-TP5 5*11
C604	067G215Y1014KT	EC CAP.
FB602	071G 55 9 T	FERRITE BEAD
FB901	071G 55 29	FERRITE BEAD
F901	084G 56 3 B	FUSE 3.15A 250V
D900	093G 6026T52T	RECTIFIER DIODE FR107
D901	093G 6038T52T	FR103
	715G2852 2	POWER BOARD PCB